

# POWERMAX PRO

Fully Supervised Wireless Alarm Control System



**Visonic®**

**Installer Guide**

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## MESSAGE TO THE INSTALLER

The PowerMax Pro control panel is supplied with 2 instruction manuals:

■ **Installer Guide** (this manual - for your exclusive use)

■ **User's Guide** (for your use during installation only - Must be handed over to the master user after testing the system).

Appendices A.1 and A.2 will help you prepare an installation plan. Please take time to fill out the forms - your job will become much easier and confusion will be prevented. Filling out the forms will also help you create a list of detectors and transmitters that must be obtained for the particular application. Compatible detectors and transmitters are listed and described briefly in Appendix E.

Remember - it is advisable to power up the control panel temporarily after unpacking and program it on the work bench, in accordance with the installation plan.

The programming flow charts in the programming section show all options available for each parameter. Factory defaults are marked with a dark box to their right, and other options (that can be selected instead) are marked by clear boxes. This method allows you to put a checkmark in the appropriate clear box whenever you deviate from the factory defaults.

Most of the programming section paragraph numbers correlate with the programming menu numbers. For example, paragraph 4.4.19 describes the "Jam detect", that exists in menu 4 (define panel), sub-menu 19 (Jam detect).

Although setting the correct time and date is one of the user tasks, we recommend that you set the time and date in the course of programming. Access to the "User Settings" for the installer is possible through item 10 on the installer's menu or through the user menu (see User's manual section 7).

After programming, proceed to install the system as detailed in the Installation Instructions, from paragraph 3.4 onward.

The installer should verify line seizure. Be aware of other phone line services such as DSL. If DSL service is present on the phone line, you must install a filter. It is suggested to use the DSL alarm filter model Z-A431PJ31X manufactured by Excelsus Technologies, or equivalent. This filter simply plugs into the RJ-31X jack and allows alarm reporting without breaking the internet connection.

# 1. INTRODUCTION

**Compatibility:** This manual refers to PowerMax pro v5.2.07 and above.

**IMPORTANT NOTE:** Partitioning refers only to purchased control panels that support the partitioning feature.

The PowerMax Pro is a user and installer-friendly, 30-zone fully-supervised wireless control system. The system is designed to function in a way that appeals to the user but also offers features that make installers' life easier than ever before.

The PowerMax Pro includes an optional partition feature. Partitioning allows you to have up to four independently controllable areas with different user codes assigned to each partition. A partition can be armed or disarmed regardless of the status of the other partitions within the system. For example, you can define the garage as partition 1, the basement as partition 2, the house as partition 3 and a safe as partition 4. Since each partition is independent of other partitions, you can arm or disarm each partition as desired without altering the states of the other partitions. Therefore, while arming or disarming your home this will not interfere with the safe that you desire to arm most of the time.

## EASY TO INSTALL

- Plug-in terminal blocks in "Zones", "Dual RS-232" and "Phone" modules, can be wired while detached from the unit.

# 2. SPECIFICATIONS

## 2.1 General Data

**Zones Number:** 28 wireless, 2 hardwired (zones 29 & 30).

**Hardwired Zone Requirements:** 2.2 kΩ E.O.L. resistance (max. resistance of wires 220 Ω).

**Zone Types:** Interior follower, interior, perimeter, perimeter follower, delay 1, delay 2, 24h silent, 24h audible, fire, non-alarm, emergency, gas, flood, temperature and home / delay.

**User Codes:** 8 codes, 4 digits each (9999 different combinations). Code 0000 is not allowed.

### Control Facilities:

- Integral keypad
- PowerCode / Code-Secure™ hand-held transmitters
- One-way / two-way keypads
- Optional Built-In Proximity Tag Reader
- Web interface via optional PowerLink module
- SMS commands via optional GSM/GPRS module
- Remote control by telephone

**Display:** Single line, Backlit 16-character LCD.

**Arming Modes:** AWAY, HOME, AWAY-INSTANT, HOME-INSTANT, LATCHKEY, FORCED, BYPASS.

**Alarm inhibited during a single arming period (swinger stop) after:** 1, 2, 3, alarm/tamper/fault, or not inhibited (programmable / selectable).

**Alarm Types:** Silent alarm, siren alarm or sounder (internal) alarm, in accordance with zone attributes.

**Siren Signals:** Continuous (intrusion / 24 hours / panic); triple pulse - pause - triple pulse... (fire).

**Siren (bell) Timeout:** Programmable

**Internal Sounder Output:** At least 85 dBA at 10 ft (3 m)

**Supervision:** Programmable time frame for inactivity alert

### Special Functions:

- Speech and sound control
- X10 - an international and open industry standard for communication among electronic devices used for home automation (up to fifteen X-10 units)
- Chime zones

- Quick attach-detach TELCO sockets for telephone line and X-10 controller. Includes a terminal block for telephone line & set.
- Special wall-mounted bracket permits installation without having to open the unit's plastic casing.
- Optional plug-in dual RS-232 module that enables a concurrent connection of a PowerLink or local computer (only 2 simultaneous device connections).

## EASY TO MAINTAIN

- Status, alarm memory and trouble data are displayed upon request.
- Diagnostic test provides visual and audible indication of the signal level of each detector.
- Remote control and status verification from distant telephones.
- Event log stores and displays information on 100 most recent events.
- Upload / download from distant computer via telephone line and modem.

## QUICK PROGRAMMING

- Multiple-choice selection of options for each parameter.
- Unequivocal visual prompts and audible signals.
- Installer access to the user menu.

- Diagnostic test and event log
- Local and Remote Programming over Telephone, GSM /GPRS connections
- Calling for help by using an emergency transmitter
- Tracking inactivity of elderly, physically handicapped and infirm people
- Message center (recording and playback)
- Two-way voice communication

**Data Retrieval:** Status, alarm memory, trouble, event log.

**Real Time Clock (RTC):** The control panel keeps and displays time and date. This feature is also used for the log file by providing the date and time of each event. In addition, it is used for the Scheduler where activity of a device is performed according to a specific time and date selection.

### Compliance with U.S. Standards:

Meets FCC Part 15 and Part 68 requirements. UL1637, UL1635, UL1023, UL985, ULC-S545-02, ULC C1023.

### Compliance with CE Standards:

EN 50131-3, EN301489-3,7, EN 50130-4, EN60950, Aka ETSI TS 0210, ATS-3

According to the European standard EN50131-1, the PowerMax Pro security grading is 2 – "low to medium risk" and environmental classification is II – "indoor general" and the power supply type is A.

The PowerMax Pro is compatible with the RTTE requirements - Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999.

### GSM standards:

**Europe :** Complies with CE standards 3GPP TS 51.010-1, EN 301 511, EN301489-7

**USA:** FCC 47 Part 22 (GSM850) and Part 24 (GSM 1900).

EMC standard: FCC 47 Part 15.

SAR standards: FCC rule 2.1093, FCC Docket 96-326 & Supplement C to OET Bulletin 65

## 2.2 RF Section

**Operating Frequencies (MHz):** 315, 433 or 868.95

**Receiver Type:** Super-heterodyne, fixed frequency

**Receiver Range:** 600 ft (180 m) in open space

**Antenna Type:** Spatial diversity

**Coding:** PowerCode and/or CodeSecure™

## 2.3 Electrical Data

**Power Supply:** Internal switching power supply 100VAC to 240VAC, 50/60 Hz, 0.5A / 12.5 VDC, 1.6A.

**Maximum Output Ripple:** 5%

**Current Drain:** Approx. 40 mA standby, 1400 mA at full load and in alarm.

**Site External Siren Current (EXT):** 450\* mA max @ 10.5 VDC minimum when powered by AC & DC (battery).

**Site Internal Siren Current (INT):** 450\* mA max. @ 10.5 VDC minimum when powered by AC & DC (battery)

**PGM Output Current:** 100\* mA max.

**Wired Detectors (zones 29 & 30) Total (Sum) Current:** 36\* mA max.

**High Current / Short Circuit Protection:** All outputs are protected (automatic reset fuse).

\* Total PowerMax Pro output current (of INT & EXT sirens, PGM output and detectors) cannot exceed 550 mA.

**Backup Battery Options:**

Backup period	Maximum external devices current <sup>(1)</sup>			
	9.6V 1800 mAh Battery Pack <sup>(2)</sup>		9.6V 2200 mAh Battery Pack <sup>(3)</sup>	
	1 battery pack <sup>(4)</sup>	2 battery packs <sup>(5)</sup>	1 battery pack	2 battery packs <sup>(5)</sup>
4h	240mA	400mA	300mA	600 mA
8h	100mA	200mA	140 mA	260 mA
12h	55mA	120mA	80 mA	160 mA
24h	0mA	40mA	25 mA	70 mA
36h	(no backup)	15mA	10 mA	36 mA
48h	(no backup)	0mA	0 mA	18 mA

The backup periods, when the PowerMax Pro includes internal PowerLink with 1 active camera, GSM and proximity reader, with external load connected between +12 / V+ terminal and GND terminal, is as follows:

Battery Pack type	Battery pack Quantity	Backup period	external load <sup>(1)</sup>
9.6V 1800 mAh <sup>(2)</sup>	1	10h	30mA
	2	20h	16 mA
9.6V 2200 mAh <sup>(3)</sup>	1	12h	50 mA
	2	24h	27 mA

<sup>1</sup> Devices that are connected between +12 / V+ terminal and GND of PowerMax Pro, that includes internal GSM and proximity reader.

<sup>2</sup> 9.6V 1800 mAh, rechargeable NiMH battery pack, p/n GP180AAM8YMX, manufactured by GP.

<sup>3</sup> 9.6V 2200 mAh, rechargeable NiMH battery pack, p/n GP220AAH8BMX, manufactured by GP.

<sup>4</sup> Standard / UL installation

<sup>5</sup> Extended backup installation

**Maximum battery recharge time:** 72 hours

**Battery Test:** Once every 10 seconds.

## 2.4 Communication

**Built-in Modem:** 300 baud, Bell 103 protocol

**Data Transfer to Local Computer:** Via RS232 serial port  
**Report Destinations:** 2 central stations, 4 private telephones.

**Reporting Format Options:** SIA, Pulse 4/2 1900/1400 Hz, Pulse 4/2 1800/2300 Hz, Contact ID, Scancom.

**Pulse Rate:** 10, 20, 33 and 40 pps - programmable

**Message to Private Phones:** Tone or voice

## 2.5 Physical Properties

**Operating Temp. Range:** 14°F to 120°F (-10°C to 49°C)

**Storage Temp. Range:** -4°F to 140°F (-20°C to 60°C)

**Humidity:** 85% relative humidity, @ 30°C (86°F)

**Size:** 10-13/16 x 8 x 2-1/8 in. (275 x 203 x 55 mm)

**Weight:** 990g (2.2 pounds) without batteries

**Color:** Silver or white

# 3. INSTALLATION

**Note:** The system must be installed in accordance with Chapter 2 of the National Fire Alarm Code, ANSI/NFPA 72.

## 3.1 Unpacking the Equipment

Open the cardboard packing box and check whether all items have been included. If you find out that an item is missing, contact your vendor or dealer immediately.

## 3.2 Supplying Power to the Unit

Connect power to the PowerMax Pro as described in Figure 3.1f. Alternatively, you may power up from the backup battery, as shown in Figure 3.1h.

Disregard any "trouble" indications pertaining to lack of battery or lack of telephone line connection.

## 3.3 System Planning & Programming

It pays to plan ahead - use the tables in appendices A and B at the end of this guide to register the intended location of each detector, the holder and assignment of each transmitter and the control plan for the X-10 units.

Gather up all transmitters and detectors used in the system and mark each one in accordance with your deployment plan.

**Program the system now as instructed in the programming section.**

## 3.4 Mounting

Required tool: Philips screwdriver #2.

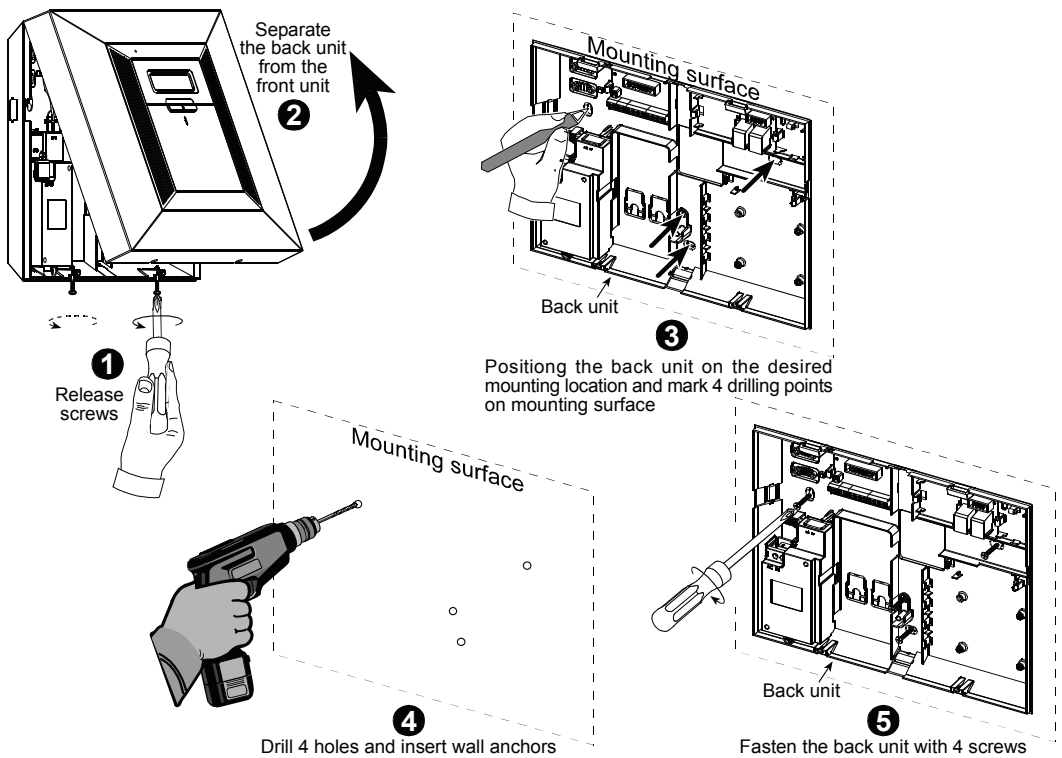
PowerMax Pro mounting process is shown in Figure 3.1a - 3.1k.

## 3.5 Back Unit Mounting and Wiring

Required tools: Cutter and slotted screwdriver - 3 mm blade.

PowerMax Pro wiring is shown in Figures 3.1b and c.

Locate the terminal block housed in the expander card located on the upper left side of the back unit and make the necessary connections.

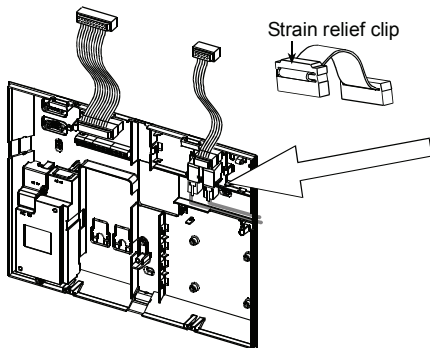


**Figure 3.1a – Back Unit Mounting**

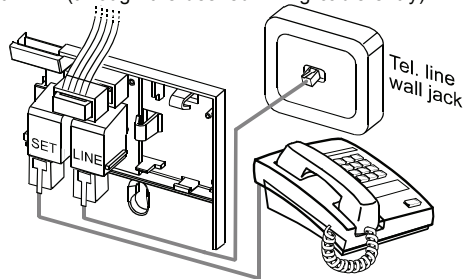
### 3.5.1 Phone Wiring

#### PHONE WIRING USING RJ CONNECTORS

**1**  
Connect the receptacles of supplied flat cables (2 - 5 cables according to options) to the back unit's plugs. The receptacles with strain relief clip are for the front unit - do not connect to the back unit!



**2**  
**For all countries except north America:** Connect telephone cable to SET connector and telephone line cable to LINE connector (through the desired wiring cable entry).



### PHONE WIRING USING TERMINAL BLOCK CONNECTORS (NORTH AMERICA)

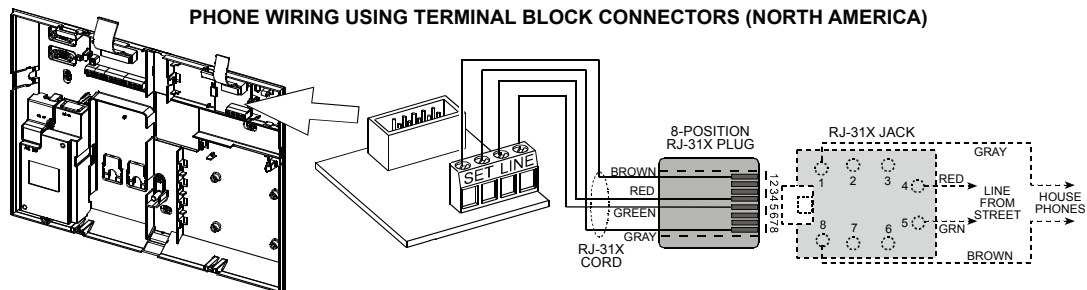


Figure 3.1b - Wiring

**Phone wiring in the UK:** Line terminals must be connected to pins 2 and 5 of the wall jack.

**For all installations:** If DSL service is present on the phone line, you must route the phone line through a DSL filter (refer to MESSAGE TO THE INSTALLER on page 2 for further details).

### 3.5.2 Zones and Sirens Wiring

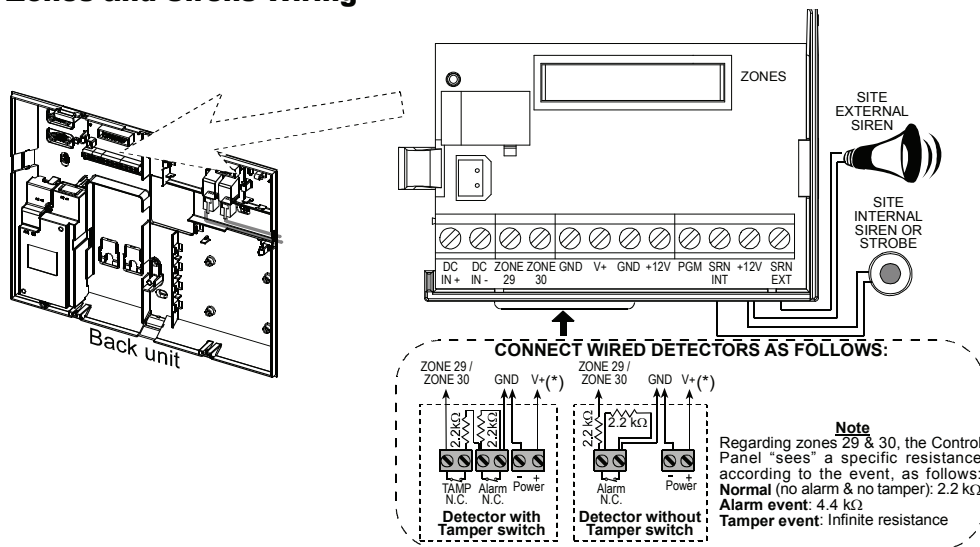


Figure 3.1c - Wiring

#### Notes:

\* Zone 29/GND and Zone 30/GND terminals can be connected to a normally closed contact of a detector, switch (for example a Tamper switch of any device), or a pushbutton, via a 2.2 KΩ resistor. **The 12V terminal can be used to supply 12V (up to 36mA) to a detector (if necessary).**

\*\* Both +12V terminals are identical (shorted together). The EXT terminal can be used to trigger an external siren. The INT terminal can be programmed for an "internal siren" or "strobe" (see DEFINE OUTPUTS - DEFINE INT/STRB in par. 4.8). The +12V and "GND" terminals can be connected to a siren (for constant DC power supply) – **not applicable in North America.**

**WARNING!** When an Internal GSM module is connected, the CELL/PC port of the Dual RS-232 module cannot be used for PC connection. In this case, either remove the Internal GSM or use the PL/PC connector.

**IMPORTANT!** The terminals for internal and external sirens are DC outputs intended for 12V sirens. Connecting a loudspeaker to any of these outputs will cause a short circuit and will damage the unit.

### 3.5.3 Installing an Optional X-10 Siren

If you need a "wireless" external siren, you may install an X-10 siren module which is triggered by a signal transmitted via the built-in electrical wiring of the protected site. This siren can replace the regular external siren or complement it without laying out additional wires. Of course, such a siren can be used only in conjunction with an optional power-line interface module.

The X-10 siren is ready to function upon connection to an electrical power outlet, without re-programming the PowerMax Pro. You only have to set the HOUSE CODE and the UNIT CODE selectors on the X-10 siren as follows:

**House Code:** Set this selector to the letter that follows, by alphabetical order, the letter that you programmed as a house code for the protected premises. For example, if the programmed house code is "J", set the siren house code selector to "K".

**Note:** If the programmed house code letter is "P" (which is the last programmable letter), select "A" for the siren.

**Unit Code:** The siren will function only if you set the unit code selector to "1".



### 3.5.4 Dual RS-232 Module Mounting

The control panel can be equipped with an optional dual RS-232 module for serial data interchange with a local computer (see Figure 3.1d). The dual RS-232 module permits any two simultaneous device connections such as: internal PowerLink, Local PC programming, and External GSM module.

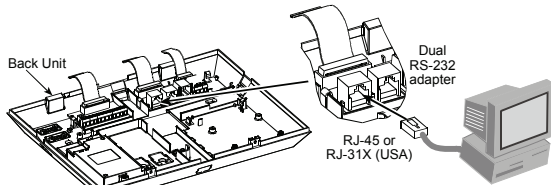


Figure 3.1d - Connecting to a Computer

### 3.5.5 Audio Module Mounting

The Audio module allows the connection of an external wired Speech box module. The Speech Box is a wired remote speaker and microphone sensor for indoor use, which provides remote audio capability to enable two-way voice communication, between the user and the central station or private telephone, via the PowerMax Pro control panel. Press the dual RS-232 and AUDIO modules into the marked locations (see Figure 3.1e), until a click is heard.

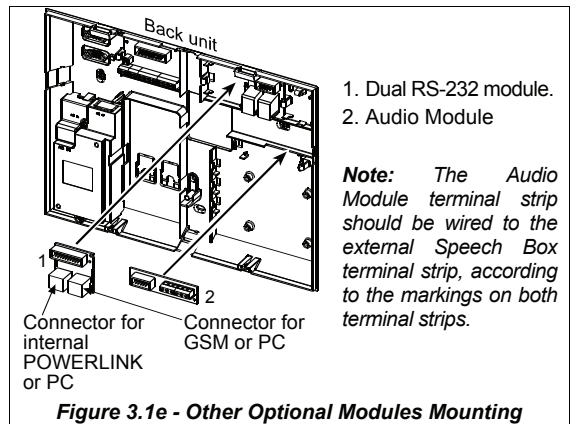


Figure 3.1e - Other Optional Modules Mounting

### 3.5.6 Power Cable Connection

Connect the power cable and close the control panel as shown in Figure 3.1f.

Socket-outlet shall be installed near the equipment and shall be easily accessible.

The connection of the power supply to the PowerMax Pro unit can be performed through two options, as follows:

Through connection of the power cable to the internal power supply, as shown in Figure 3.1f.

-or-

Through direct connection of the 12.5 VDC power supply to the expander card via the wall mounted switched AC/DC power supply (supplied by Visonic), as shown in Figure 3.1g.

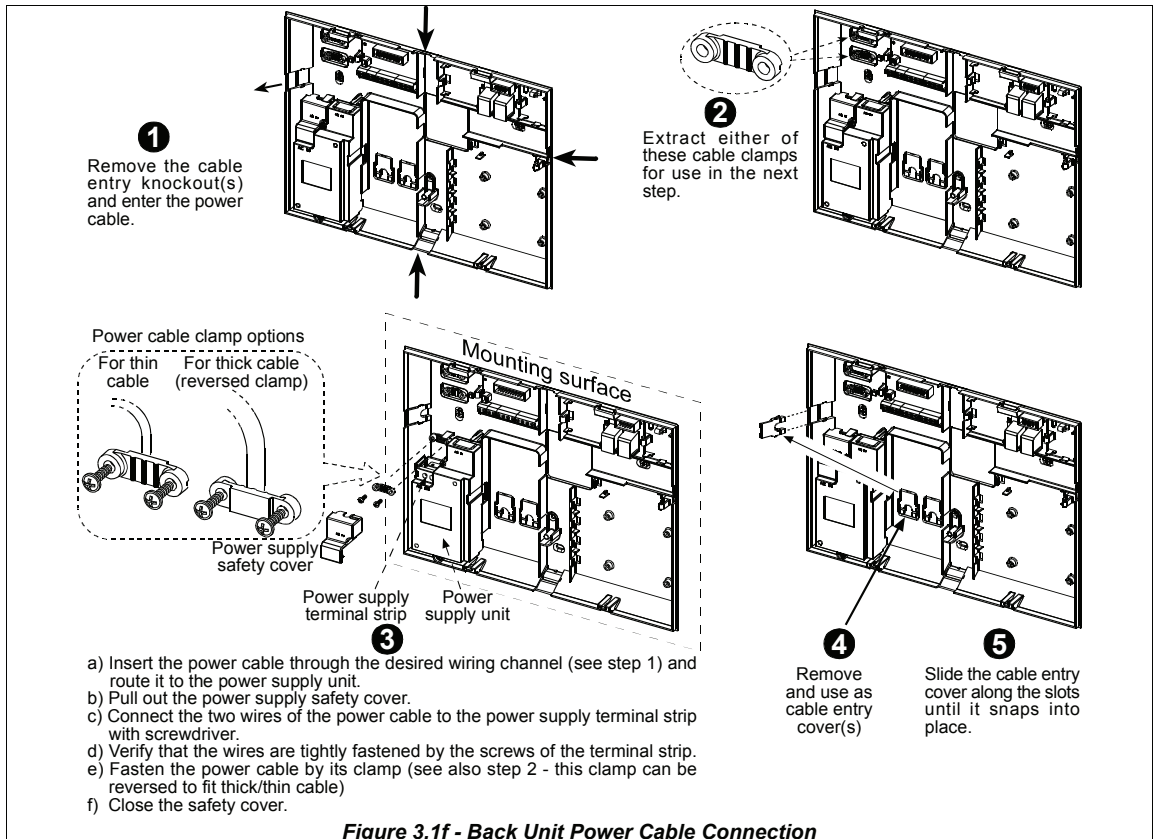


Figure 3.1f - Back Unit Power Cable Connection

## POWER CONNECTION FOR USA ONLY

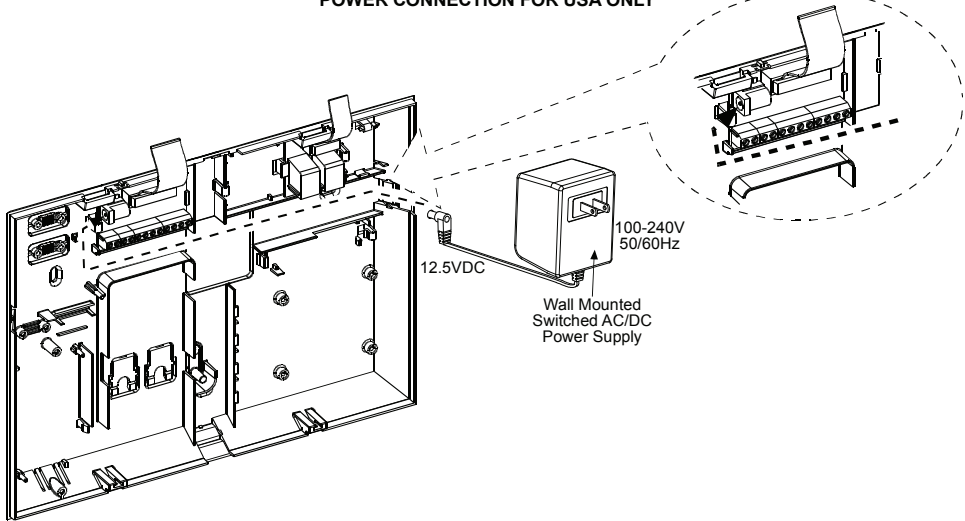


Figure 3.1g – Wall Mounted Switched AC/DC Power Supply Connection

## 3.6 Front Unit Preparation

### 3.6.1 Backup Battery Insertion

Open battery compartment cover (see Figure 3.1h). Insert one 8-battery pack and connect its connector to the PowerMax Pro receptacle.

**For optional two 8-battery packs:** Insert both battery packs and connect one battery pack connector to either receptacles and the second battery pack connector to the other receptacle.

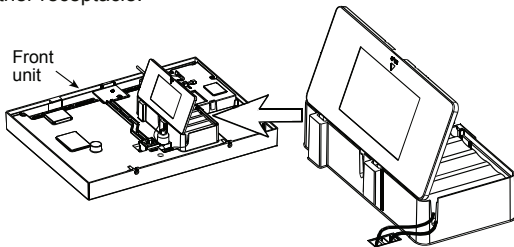


Figure 3.1h - Battery Insertion

### 3.6.2 X-10 Interface Module Connection

Connect the X-10 interface module connector to the PowerMax Pro receptacle. Route the cable through the cable channel and connect to the X-10 interface module, via the back unit.

The X-10 jumper should be in 1-W position (for 1-way power line interface unit) or in 2-W position (for 2-way power line interface unit).

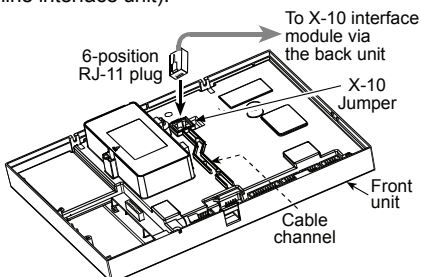


Figure 3.1i - X-10 Interface Module Connection

### 3.6.3 Optional GSM/GPRS Module Mounting

**Caution! Do not insert or remove the GSM module when the PowerMax Pro is powered by AC power or by battery.**

Plug in the GSM module and fasten it with the screw (see drawing below).

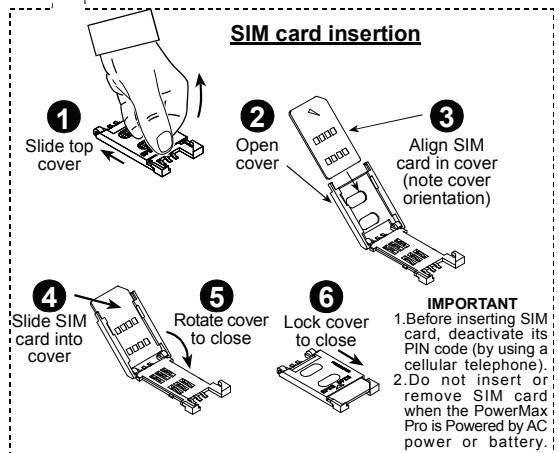
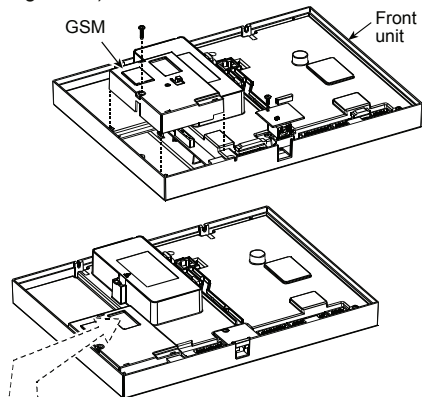
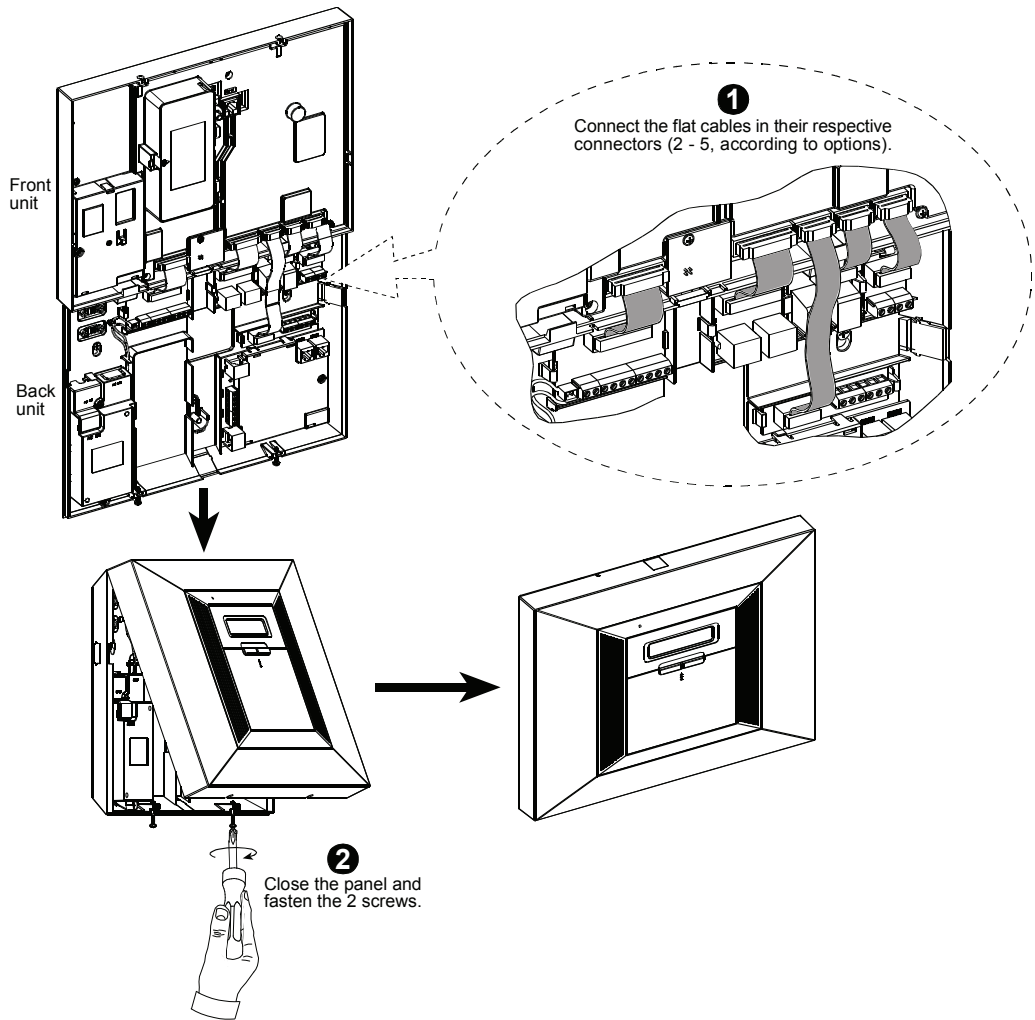


Figure 3.1j - Optional GSM/GPRS Module Mounting



### 3.7 Final Closure



**Figure 3.1k - Final Closure**

## 4. PROGRAMMING

### 4.1 INTRODUCTION

Your system is equipped with a partitioning feature (in a PowerMax Pro Partition system) that can divide your alarm system into four distinct areas identified as Partition 1 through 4. Partitioning can be used in installations where shared security systems are more practical, such as a home office or warehouse building. When partitioned, each zone, each user code and many of your system's features can be assigned to Partition 1 to 4.

**Note:** If the partition feature is disabled, all zones, user codes, and features of the PowerMax Pro will operate as in a regular unit.

#### 4.1.1 General Guidance

We recommend to program the PowerMax Pro on the work bench before actual installation. Operating power may be obtained from the backup battery or from the AC power supply. The installer's menu is accessible only to those who know the installer's 4-digit code, which is **9999** by factory default.

**Note:** Access to the installer menu, in PowerMax Pro that has "User Permission" enabled (for example in UK) is accessible only at the end of the user menu. This option can be changed if necessary (see par. 4.4.36).

For PowerMax Pro that has 2 installer codes, the default MASTER INSTALLER code is **9999** and the default INSTALLER code is **8888**.

The following actions can be done only by using the master installer code:

- Changing master installer code.
- Resetting the PowerMax Pro parameters to the default parameters,
- Defining specific communication parameters, as detailed in a note in Figure 4.5.

Obviously, you are expected to use this code only once for gaining initial access, and replace it with a secret code known only to yourself.

You will mainly use 5 control pushbuttons during the entire programming process:

	- to move one step forward in a menu.
	- to move one step backward in a menu.
	- to enter the relevant menu or confirm data.
	- to move one level up in a menu.
	- to return to the "OK TO EXIT" state.

The sounds you will hear while programming are:

	- Single beep, heard whenever a key is pressed.
	- Double beep, indicates automatic return to the normal operating mode (by timeout).
	- Happy Melody (- - - -), indicates successful completion of an operation.
	- Sad Melody (—), indicates a wrong move or rejection.

#### 4.1.2 Entering an Invalid Installer Code

If you enter an invalid installer code 5 times, the keypad will be automatically disabled for a pre-defined period of time and the message WRONG PASSWORD will be displayed.

#### 4.1.3 Installer's Menu

The installer's menu is shown in Figure 4.1a. The text in rectangles represents the current PowerMax Pro display.

#### 4.1.4 Setting a New Installer Code

To set an installer code, perform the actions that are presented in Figure 4.1b. When you are instructed to enter code, enter a 4-digit code.

#### 4.1.5 Setting a New Installer Code in PowerMax Pro that has 2 Installer Codes

For PowerMax Pro with 2 installer codes, MASTER INSTALLER code (default 9999) and INSTALLER code (default 8888), set new codes as shown in figure 4.1c.

For details regarding the different authorization levels when logging in with installer code and master installer code, refer to the note inside Figure 4.5 (DEFINE COMM).

By using the master installer code, the menu enables changing both master installer code and installer code. By using the installer code, the menu enables changing the installer code only.

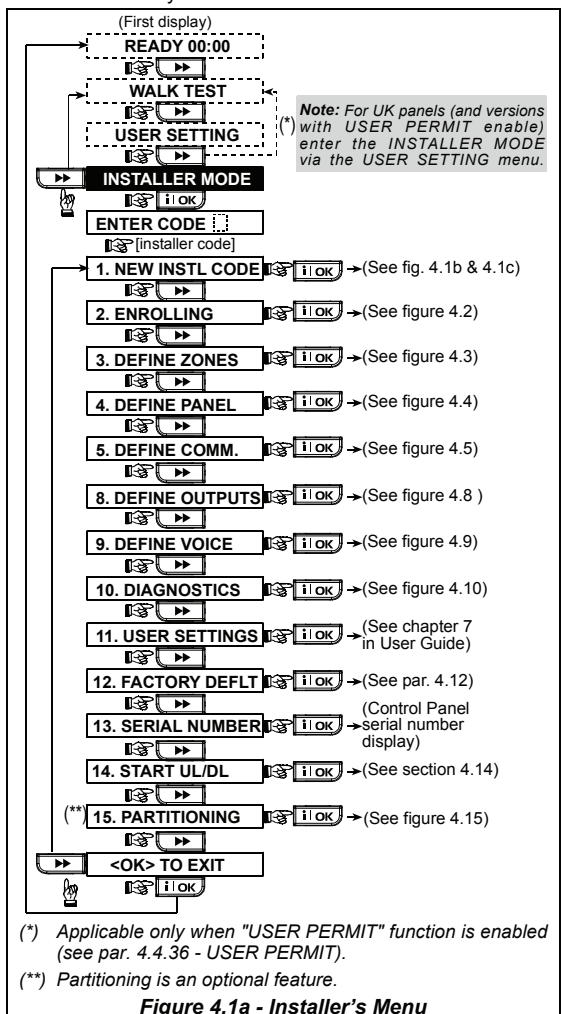


Figure 4.1a - Installer's Menu

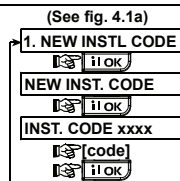


Figure 4.1b - Setting a New Installer Code (see note)

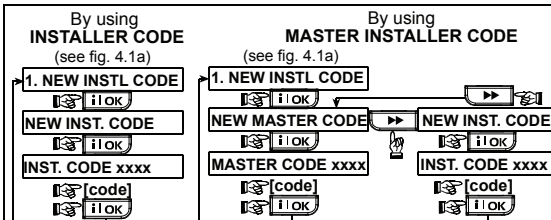


Figure 4.1c - Setting a New Installer Code in System with Inst. & Master Inst. Codes (see note)

**Note:** Installer Code should never be programmed as "0000". Doing so will lock the user out of the installer menu!

## 4.2 ENROLLING WIRELESS SENSORS AND KEYFOB TRANSMITTERS

### 4.2.1 General Guidance

The ENROLLING mode has the following sub-modes:

- ENROLLING TYPE (wireless sensors)
- ENROLL SENSORS (enroll wired magnetic contact or any other contact in zones 29 & 30 / enroll wireless detectors in zones 01-28).
- ENROLL KEYFOB (multi-button CodeSecure transmitters)
- ENROLL WL 1WAY KP (wireless commander MCM-140+)
- ENROLL WL 2WAY KP (wireless 2-way keypad MKP-150/151)

**Note:** This sub-mode will be hidden if Partition is enabled.

- ENROLL WL SIREN (wireless siren)
- ENROLL PROX TAG (proximity tag)

Before beginning, gather all the sensors that you intend to enroll and make sure they all have batteries installed.

Your control panel must recognize the unique identification code (ID) of each such sensor in order to supervise them, receive their signals and respond accordingly.

**Attention!** CodeSecure transmitters are mainly used for arming/disarming and can not be enrolled to zones. For enrolling to zones, use only non-CodeSecure wireless sensors.

### 4.2.2 Enrolling Type

Here you determine whether to enroll a wireless sensor by normal transmission or by sensor Tamper function (opening its cover). Options: **normal**, or **by tamper**.

### 4.2.3 Enroll/Delete Sensors

Wired and wireless sensors can be enrolled into the PowerMax Pro. To enroll / delete sensors, refer to Figure 4.2.



- Before enrolling, the lens at the front of PIR and dual-technology sensors should be masked to prevent inadvertent transmission.
- Make sure that magnetic contact transmitters are together with their magnets, to prevent them from sending out alarm transmissions.

### 4.2.4 Enroll/Delete Keyfob Transmitters

Keyfob transmitters are multi-button wireless CodeSecure™ transmitters. Eight system users use them for better, quicker and safer control over various system functions.

To enroll / delete 1-way or 2-way keyfob transmitters, refer to Figure 4.2.

### 4.2.5 Enroll/Delete Wireless Commander

The Wireless Commander (MCM-140+) is a remote control unit that enables the user to remotely control the system. To enroll / delete up to 8 wireless commanders, refer to Figure 4.2 (Enroll WL 1-way KP).

### 4.2.6 Enroll/Delete 2-Way Keypad

The 2-way keypad, type MKP-150/151, enables the user to remotely control the system and also to receive data from the system (status, alarm and trouble data). To enroll up to two 2-way keypads, refer to Figure 4.2.

**Note:** MKP-150/151 is not compatible for use when partition is enabled.

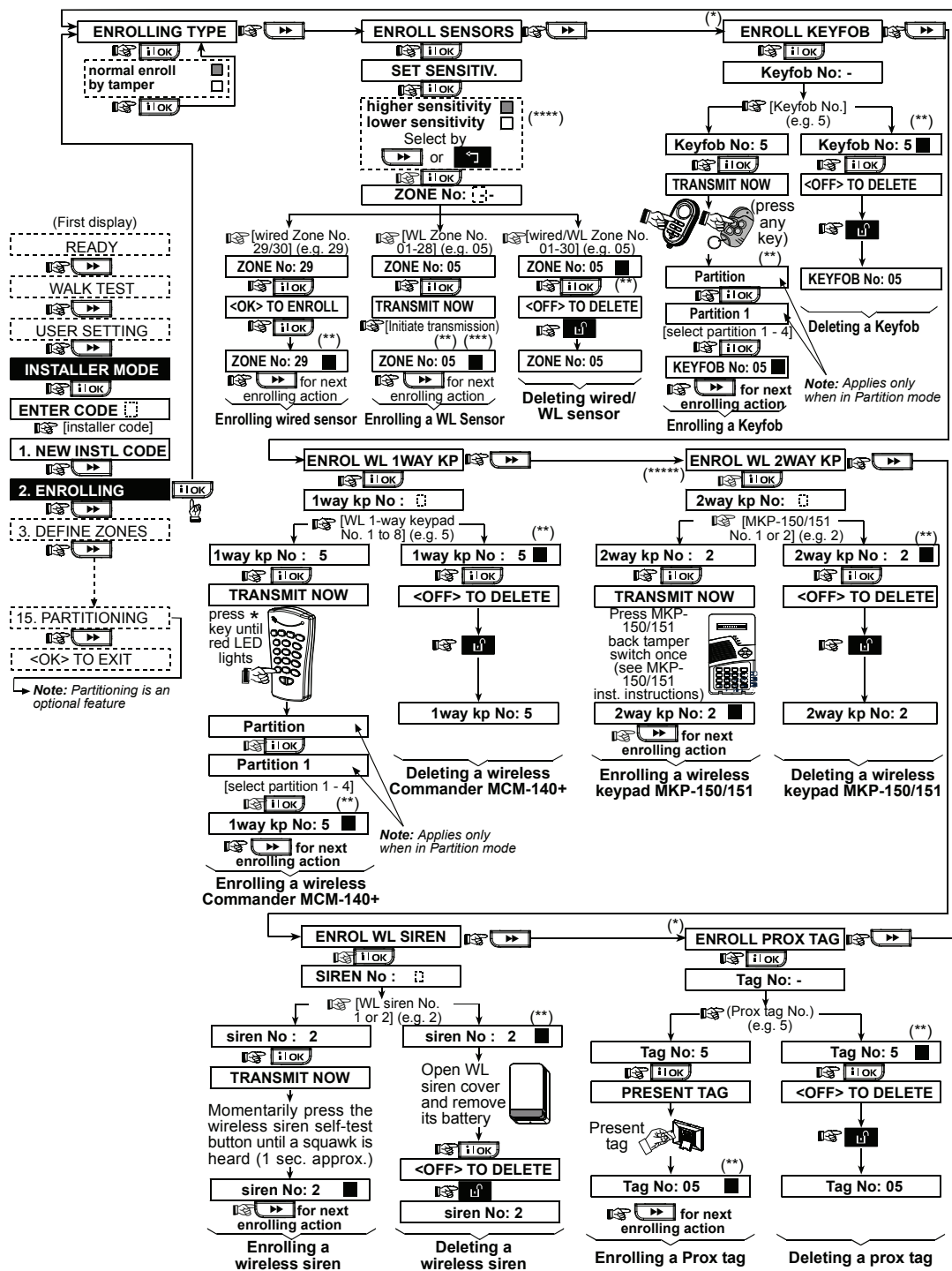
### 4.2.7 Enroll/Delete Wireless Siren

The wireless siren is a remote siren that is activated upon predefined events by the PowerMax Pro system. To enroll / delete up to 2 wireless sirens, refer to Figure 4.2.

### 4.2.8 Enroll/Delete Proximity Tags

Proximity tags enable authorized people to enter restricted areas. Presenting valid proximity tag, while the system is armed, causes the system to disarm. Presenting valid proximity tag, while the system is disarmed, causes the system to be armed in AWAY (optional HOME) mode. To enroll / delete proximity tags, refer to Figure 4.2.

**Note:** Proximity tags are used on control panels with installed Proximity readers (not standard on UK versions). Proximity tags are not compatible for use when partition is enabled.



**Figure 4.2 - Enrolling / Deleting Wireless Sensors / Keyfobs / Wireless Commanders / Wireless Sirens**

- \* Keyfob & proximity tags enrolling can be performed by the installer or by the user (via USER SETTINGS menu).
- \*\* Black box in the display means that a device is enrolled (the system has learned its ID). No black box indicates that the device is not enrolled.
- \*\*\* Initiate either normal transmission or the sensor tamper function (see ENROLLING TYPE, Par. 4.2.2).

- \*\*\*\* Select "higher" sensitivity for far wireless sensor, "lower" for near sensors.
- \*\*\*\*\* MKP-150/151 is not compatible for use when partition is enabled.
- Note:** This changes the RF range during enrolling only and does not affect the performance of the sensor.

## 4.3 DEFINING ZONE TYPES, NAMES, CHIME ZONES & PARTITION

This mode allows you to assign one of 15 zone types to each of the system's 30 (wireless & wired) zones. You can define zones as KEY ZONES, to enable arming/disarming of the system by PowerCode transmitters (see appendix D14). In addition, it also allows you to assign a name and partition number (up to four – in a PowerMax Pro Partition system) to each zone and determine whether the zone will operate as a chime zone. When a chime zone is triggered, chime melody or zone name is heard (there are 3 selectable chime modes - Melody chime, Zone Name Chime or Chime Off).

A list of factory defaults is printed in table 1. You may fill out the blank columns even before you start and proceed to program according to your own list.

### Remember!

A delay zone is also a perimeter zone by definition.

**Zone types are fully explained in Appendix D.**

**Note:** Custom Zone Name text can be changed through the DEFINE VOICE menu.

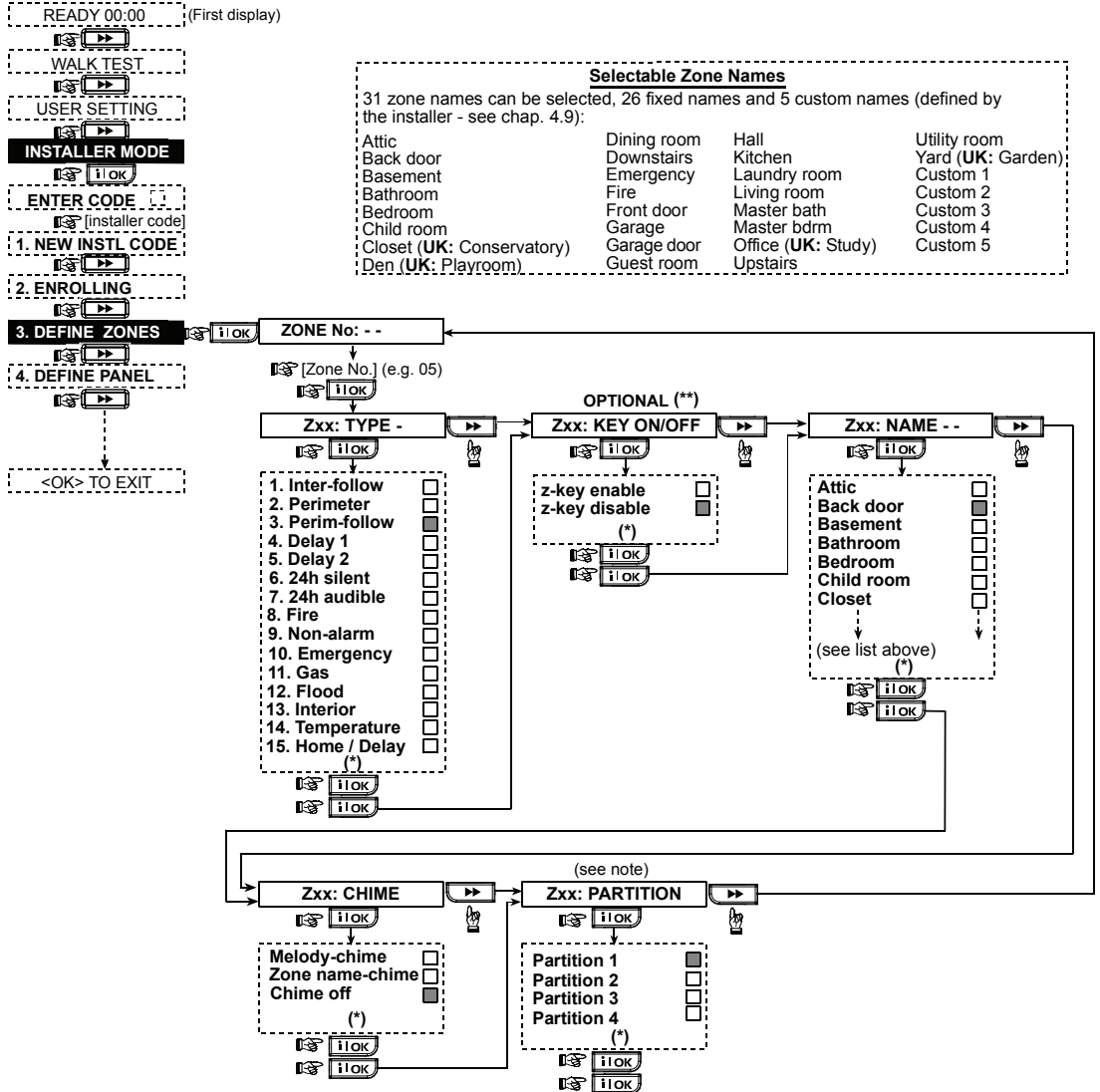


Figure 4.3 - DEFINE ZONES Flow Chart

\* The currently saved option is displayed with a dark box at the right side. To review the options, repeatedly click or button, until the desired option is displayed, then click (a dark box will be displayed at the right side).

\*\* Key ON/OFF (optional) will appear only after the following are performed. First, select an option in Key Zones Options (via Define Panel menu). Then, having entered the Define Zones menu, the zone number you assign must be within the range of that selected in Key Zones. Finally, in zone type, select Non-alarm, then click .





Table 1 - DEFAULT AND PROGRAMMED ZONE DEFINITIONS

Zone No.	Zone Type		Zone Name		Chime (melody Zone Name or Off) (*)	Partition
	Default	Programmed	Default	Programmed		
1	Delay 1		Front Door			
2	Delay 1		Garage			
3	Delay 2		Garage Door			
4	Perimeter		Back Door			
5	Perimeter		Child Room			
6	Interior		Office			
7	Interior		Dining Room			
8	Perimeter		Dining Room			
9	Perimeter		Kitchen			
10	Perimeter		Living Room			
11	Interior		Living Room			
12	Interior		Bedroom			
13	Perimeter		Bedroom			
14	Perimeter		Guest Room			
15	Interior		Master Bedroom			
16	Perimeter		Master Bedroom			
17	Perimeter		Laundry Room			
18	Perimeter		Master Bathroom			
19	Perimeter		Basement			
20	Fire		Fire			
21	Fire		Fire			
22	Emergency		Emergency			
23	Emergency		Emergency			
24	24 h / silent		Basement			
25	24 h / silent		Office			
26	24 h / audible		Attic			
27	24 h / audible		Den			
28	non-alarm		Yard			
29	non-alarm		Hall			
30	non-alarm		Utility room			

\* **Note:** All zones are Off-chime by default. Enter your own choice in the last column and program accordingly.

## 4.4 DEFINING CONTROL PANEL PARAMETERS

### 4.4.1 Preliminary Guidance

This mode allows you to customize the control panel and adapt its characteristics and behavior to the requirements of the particular user. An illustrated process is shown in Figure 4.4. In this illustration, each selected option is displayed with a dark box at the right side. To review the options, repeatedly click  or  button, until the desired option is displayed, then click SHOW/OK button.

### 4.4.2 Entry Delays 1&2

(Fig. 4.4, location 01, 02). Two different entry delays allow the user to enter the protected site (while the system is in the armed state) via 2 specific doors and routes without causing an alarm.

Following entry, the user must disarm the control panel before the entry delay expires. Slow-rate warning beeps start sounding once the door is opened, until the last 10 seconds of the delay, during which the beeping rate increases. Locations No. 1 (entry delay 1) and 2 (entry delay 2) allow you to program the length of these delays. Available options for each delay are: **00s, 15s, 30s, 45s, 60s, 3m and 4m.**

### 4.4.3 Exit Delay

(Fig. 4.4 location 03). An exit delay allows the user to arm the system and leave the protected site via specific routes and doors without causing an alarm. Slow-rate warning beeps start sounding once the arming command has been

given, until the last 10 seconds of the delay, during which the beeping rate increases. Location No. 3 allows programming of the exit delay length. Available options are: **30s, 60s, 90s, 120s, 3m, and 4m.**

### 4.4.4 Bell Time

(Fig. 4.4, location 04). Here you select the length of time the bell (or siren) is allowed to function upon alarm. The bell time starts upon activation of the siren. Once the bell time expires, the siren is automatically shut down.

Available options are: **1, 3, 4, 8, 10, 15 and 20 minutes.**

**Note:** Bell Time is defined for the entire alarm system. However, when disarming any partition (in a PowerMax Pro Partition system) the siren ceases to sound.

### 4.4.5 Abort Time

(Fig. 4.4 location 05). Here you select the length of time allowed by the system to abort an alarm (not applicable to alarms from FIRE, 24H SILENT, EMERGENCY, GAS, FLOOD and TEMPERATURE zones). The PowerMax Pro is programmed to provide an "abort interval" that starts upon detection of an event. During this interval, the buzzer sounds a warning but the siren remains inactive and the alarm is not reported. If the user disarms the system within the allowed abort interval, the alarm is aborted.

Available options are: **00s, 15s, 30s, 45s, 60s, 2m, 3m and 4m.**

#### 4.4.6 Alarm Cancel

(Fig. 4.4, location 06). Here you determine the "cancel alarm" period that starts upon reporting an alarm to the central station. If the user disarms the system within that time period, a "cancel alarm" message is sent to the central station.

Available options are: **1, 5, 15, 60 minutes, 4 hours** and also **cancel inactive**.

#### 4.4.7 Quick Arm

(Fig. 4.4, location 07). Here you determine whether the user will be allowed to perform quick arming or not. Once quick arming is permitted, the control panel does not request a user code before it arms the system.

The two options are: **quick arm ON** and **quick arm OFF**.

#### 4.4.8 Bypass

(Fig. 4.4, location 08). Here you permit either manual bypassing of individual zones (through the USER SETTINGS menu), or allow the system to "force arm" (perform automatic bypassing) of open zones during the exit delay. If desired, press the arming key again if you want to eliminate the protest tone that sounds during forced arming. If a zone is open and forced arming is not permitted, "NOT READY" is displayed and the system does not arm (the "Sad Melody" will sound). If "no bypass" is selected, neither manual bypassing nor force arming is allowed.

Options: **manual bypass, force arm** and **no bypass**.

**Note:** Force arm is not applicable in the UK.

#### 4.4.9 Exit Mode

(Fig. 4.4, location 09). Here you determine exit mode options. Three types of exit modes are available:

**Restart Exit** - Exit delay restarts when the door is reopened during exit delay. The restart occurs once only. Restarting the exit delay is helpful if the user re-enters immediately after going out to retrieve an item that he left behind.

**Off by door** - When the door is closed, the exit delay is automatically terminated (even if the defined exit delay was not completed).

**Normal** - The exit delay is exactly as defined, regardless of whether the door is open or closed.

#### 4.4.10 Piezo Beeps

(Fig. 4.4, location 10). Here you determine whether warning beeps will sound or muted during exit and entry delays. An additional option is to mute the warning beeps only when the system is armed "HOME".

Options: **enable beeps, off when home** and **disable beeps**.

**Note:** When exit beeps are disabled toward the end of a delay, the happy (success) melody will sound.

#### 4.4.11 Trouble Beeps

(Fig. 4.4, location 11). Under trouble conditions, the sounder emits a series of 3 short beeps once per minute. Here you determine whether this special beeping sequence will be active, inactive, or just inactive at night (the range of "night" hours is defined in the factory). The 3 options are: **enable beeps, off at night (8 PM through 7 AM)** and **disable beeps**.

#### 4.4.12 Panic Alarm

(Fig. 4.4, location 12). Here you determine whether the user will be allowed to initiate a panic alarm by simultaneous pressing either the two panic buttons (on the keypad / wireless commander) or away + home (on a

DE5468IP

keyfob transmitter). Audible panic activates the siren and simultaneously transmits a message via telephone. Silent panic only transmits a message via telephone. The options are: **silent panic, audible panic** and **disable panic**.

#### 4.4.13 Swinger Stop

(Fig. 4.4, location 13). Here you determine the number of times each zone is allowed to initiate an alarm within a single arming period (including tamper & power failure events of detectors, PowerMax Pro, wireless siren, etc.). If the alarms number from a specific zone exceeds the programmed number, the control panel automatically bypasses the zone to prevent recurrent siren noise and nuisance reporting to the central station. The zone will be reactivated upon disarming, or 48 hours after having been bypassed (if the system remains armed).

Available options are: **shut after 1, shut after 2, shut after 3** and **no shutdown**.

**Note:** Swinger Stop is defined for the entire alarm system and not per partition (in a PowerMax Pro Partition system).

#### 4.4.14 Cross Zoning

(Fig. 4.4, location 14). Here you determine whether cross zoning will be active or inactive. Cross zoning is a method used to counteract false alarms - an alarm will not be initiated unless two adjacent zones are violated within a 30-second time limit.

This feature is active only when arming AWAY and only with zone couples from zone No. 18 to 27 (18 and 19, 20 and 21, etc.). You may use any one of these zone couples to create a "cross-zoned" area.

**Note:** If one of two crossed zones is bypassed (see Para. 4.4.8), the remaining zone will function independently.

**Note:** Every 2 crossed zones must be of the allowed zone type (Interior, Perimeter, Perimeter follower).

The options are: **cross zone ON** and **cross zone OFF**.

**Cross zoning is not applicable in Entry/ Exit zones and 24h zones (Fire, Emergency, 24h audible, 24h silent).**

#### 4.4.15 Supervision

(Fig. 4.4, location 15). Here you determine the time limit for reception of supervision reports from various supervised wireless devices. If any device does not report at least once within the selected time limit, an "INACTIVITY" alert is initiated.

The options are: **1, 2, 4, 8, 12 hours** and **disable**.

#### 4.4.16 NOT READY

(Fig. 4.4, location 16). Here you determine if the system will be in NOT READY status when there is a supervision failure. In the "in supervision" mode, the system will be in NOT READY status if during the last 20 minutes a supervision message was not received. Options: **normal** and **in supervision**.

**Note:** NOT READY operates only per partition (in a PowerMax Pro Partition system).

#### 4.4.17 AUX Button A

(Fig. 4.4, location 17). Here you select the function of the AUX button/ button A on keyfob transmitters MCT-234, MCT-237 and wireless commanders MCM-140+. Four options are offered for each AUX button:

**Status:** Pressing the AUX button will cause the control panel's voice module to announce the system status.

**Instant:** Pressing the AUX button while the exit delay is in progress will cause the system to arm "instant" (the entry delay is canceled).

**Skip exit delay:** Pressing the AUX button will immediately cause the system to arm "instant".

**PGM / X-10:** Pressing the AUX button will activate the PGM output or X-10 units (see further programming under "DEFINE OUTPUTS", par. 4.8).

#### 4.4.18 AUX Button B 2-W-KF

(Fig. 4.4, loc. 18). Applicable only for 2-way keyfob MCT-237. Same as 4.4.17 but for AUX button B.

#### 4.4.19 Jam Detect

(Fig. 4.4, location 19). Here you determine whether jamming (interfering transmissions, on the radio channel used by the system) will be detected and reported or not. If a jam detection option is selected, the system does not allow arming under the relevant jamming conditions.

**Jam Detection Options**

Option	Detection and Reporting when
<b>UL (20/20)</b> (USA standard)	There is continuous 20 seconds of jamming
<b>EN (30/60)</b> (Europe standard)	There is an accumulated 30 seconds of jamming within 60 sec.
<b>class 6 (30/60)</b> (British standard)	Like EN (30/60) but the event will be reported only if the jamming duration exceeds 5 minutes.
<b>Disabled</b>	(no jamming detection and reporting).

#### 4.4.20 Latchkey

(Fig. 4.4, location 20). Here you determine whether the system can be armed in the latchkey mode. If the system is armed this way, a "latchkey" message will be sent to specific telephones upon disarming by a "latchkey user" (users 5-8 or keyfob transmitters 5-8). This mode is useful when parents at work want to be informed of a child's return from school. You can record a name for latchkey users. The options are: **Latchkey ON** and **Latchkey OFF**.

#### 4.4.21 "Not Active"

(Fig. 4.4, location 21). Here you determine the time limit for reception of signals from sensors used to monitor the activity of sick, elderly or disabled people. If no sensor detects and reports movement at least once within the defined time limit, a "not-active" alert is initiated.

Options: **3, 6, 12, 24, 48, 72 hours** and **no act disable**.

**Note:** The Not Active timer is defined for the entire alarm system for the above hour options and not per partition (in a PowerMax Pro Partition system). Subsequently, a dedicated timer is assigned to each partition.

#### 4.4.22 Back Light

(Fig. 4.4, location 22). Here you determine whether the keypad back lighting will remain on at all times or will come on when a key is pressed and go off within 10 seconds if no further keystrokes are sensed.

The two options are: **always on** and **off after 10 s**.

#### 4.4.23 Duress

(Fig. 4.4, loc. 23). A duress alarm (ambush) message can be sent to the central station if the user is forced to disarm the system under violence or menace. To initiate a duress message, the user must disarm the system with the duress code (2580 by default). Here you can change the code digits or enter "0000" to disable the duress feature. **The system does not allow the user to program the duress code saved in this memory location as an existing user code.**

#### 4.4.24 Piezo Siren

(Fig. 4.4, location 24). Here you determine whether the internal siren will sound or remain silent upon alarm (according to the user preference). Options: **piezo siren on**, **piezo siren off**.

#### 4.4.25 Reset Option

(Fig. 4.4, location 25). **(Not applicable in the USA)**

Here you determine whether the system can be rearmed (after an event) by the user or only by the installer.

Options: **user reset** or **engineer reset** or **anti code reset**. If Engineer Reset is selected, the system can be rearmed only by the installer; by entering and exiting the installer menu, by entering and exiting the event log (see section 7), or by remote telephone. To perform Engineer Reset via the telephone, establish communication with the PowerMax Pro (see user guide, Remote Control by Telephone, steps 1-5) and continue as follows:

- [\*], [installer code], [#]
- Wait for 2 beeps
- [\*], [1], [#]
- [\*], [99], [#]

Visonic uses Technistore anti code reset. Installers should check with their central station for a code version (seed code) which needs to be entered in menu 4.4.35.

**Note:** This menu is not available when partition is enabled.

#### 4.4.26 Tamper Option

(Fig. 4.4, location 26). Here you determine whether zone tamper will be reported or ignored. Available options are: **zone tamper ON** and **zone tamper OFF**.

#### 4.4.27 Siren On Line

(Fig. 4.4, location 27). Here you determine whether the siren will be activated or not when the telephone line fails during system armed state. Available options are: **enable on fail**, **disable on fail**.

#### 4.4.28 Memory Prompt

(Fig. 4.4, location 28). Here you determine whether the user will receive indication that an alarm has been activated. Available options are: **enable** and **disable**.

#### 4.4.29 Disarm Option

(Fig. 4.4, location 29). **(Not applicable in the USA)**

Here you determine when it is possible to disarm the system:

- Any time.
- In AWAY mode, during entry delay, by using the PowerMax Pro keypad or wireless sensor (keyfob).
- In AWAY mode, during entry delay, by using a wireless device (keyfob) only (this is set as a default in UK to comply with DD243).
- During entry delay, or by using the PowerMax Pro keypad in AWAY mode.

Options: **any time**, **on entry all**, **on entry wireless**, or **entry + away kp**.


#### 4.4.30 Bell/Rep. Option

(Fig. 4.4, location 30). Here you determine whether an alarm will be initiated (siren / report) when there is a supervision / jamming failure during AWAY arming state. Available options are: **EN standard** and **other**. When "EN standard" is selected, if there is supervision / jamming failure during AWAY arming, the siren is activated and the events are reported as tamper events. When "Other" is selected, there is no such activity during AWAY arming.

#### 4.4.31 Low-Bat Ack

(Fig. 4.4, location 31). Here you determine whether the user will hear or will not hear low battery sound when he tries to disarm the system with a keyfob whose battery voltage is low. Available options are: **keyfob L-B on** (the user has to acknowledge the keyfob low battery message) or **keyfob L-B off** (the user does not have to acknowledge the keyfob low battery message).

#### 4.4.32 Screen Saver

(Fig. 4.4, location 32). Here you can determine that if no key is pressed during more than 30 seconds, the display will be "PowerMax" (to prevent possible intruder of knowing the system status). You can determine that normal display will return after pressing the  button followed by entering user code (**Refresh by Code**) or after pressing any key (**Refresh by Key**).

If **Refresh by Key** is selected, the first pressing of any key (except Fire and Emergency) will cause normal display return and the second press will perform the key function. Regarding the Fire and Emergency keys, the first key press will cause normal display return and also will perform the Fire/Emergency function.

Options: **scrn saver OFF**, **refresh by code**, **refresh by key**.

#### 4.4.33 Confirm Alarm

(Fig. 4.4, location 33). Here you determine that if 2 successive alarms will occur during a specific period, the second alarm will be considered as a **confirmed alarm** (for confirmed alarm reporting, (see par. 4.5.3).

Options: **disable 30 min.**, **45 min.**, **60 min.**, or **90 min.**

#### 4.4.34 AC FAIL REP

(Fig. 4.4, location 34). Here you determine the time interval between AC power failure occurrence and the failure reporting. Options: **5 minutes**, **30 minutes**, **60 minutes** or **180 minutes**.

#### 4.4.35 Code Version

(Fig. 4.4, location 35) (**Not applicable in the USA**) Here you determine the PowerMax Pro code version (default "000") which needs to be synchronized with the central station when the anti code reset function is enabled (see menu 4.4.25). This allows the central station personnel to provide the user, by telephone, the proper reset code after the user has stated the Quote code. Enter the code version (3 digits) 000 to 255.

**Note:** Visonic uses Technistore anti code reset.

#### 4.4.36 User Permission

(Fig. 4.4, location 36). Here you determine whether the access to the INSTALLER MODE requires user permission. If you select **ENABLE**, the installer mode will be accessible only through the user menu after entering the user code.

Options: **Enable**, **Disable**.

**Note:** This menu is not available when partition is enabled.

#### 4.4.39 Key Zones Options (Optional)

(Fig. 4.4, location 39). Here you determine whether or not the system can be armed and disarmed by zones 21-18, 29-30 or 21-30, provided that for these zones "non-alarm type" and "z-key enable" was predefined (see par. 4.3 and Appendix D14).

Key zones can be wireless or wired zones.

When using wireless key zones, only the MCT-100 and MCT-102 transmitters are used. The left pushbutton on the MCT-102 transmitter or input 1 of the MCT-100 transmitter is used for arming in AWAY mode. The right pushbutton on the MCT-102 transmitter or input 2 of the MCT-100 transmitter is used for disarming.

When using wired key zones, the control panel toggles between AWAY mode and Disarm.

**Note:** In "Singapore" versions of the PowerMax Pro, an open circuit arms the alarm system in AWAY mode and a closed circuit changes the state of the alarm system from AWAY mode to Disarm.

**IMPORTANT!** Enrolment of the MCT-100 or MCT-102 transmitter must be performed via the left pushbutton on the MCT-102 transmitter or input 1 of the MCT-100 transmitter.

**Note:** Key Zones does not comply with Belgium TO14A and EN 50131-5-3.

**Caution!** Arming the system using a transmitter assigned to zones 21 and 28, or via wired zones 29 and 30 compromises security. This function is, therefore, only available in specific PowerMax Pro versions according to the customer's request.

Options: **disable option**, **z. 21-28 enable**, **z. 29-30 enable**, or **z. 21-30 enable**.





## 4.5 DEFINING COMMUNICATION PARAMETERS

### Preliminary Guidance

This mode allows you to adapt the telephone communication parameters to the local requirements.




**Note:** *Defining communications via GPRS is applicable to PowerMax Pro versions 5.2.07 and above.*

**Compatible central station receivers are:**  
**Osborne-Hoffman Model 2000, Ademco Model 685, FBI Model CP220, Radionics Model D6500, Sur-Gard Model SG-MLR2-DG and Silent Knight Model 9500.**

**IMPORTANT:** *In telephone number locations and account number locations, you may be required to enter hexadecimal digits. In telephone number locations, these digits are used as codes to control the dialer:*

Hex. Digit	Keying Sequence	Code Significance
A	<#> ⇒ <0>	Applicable <i>only</i> at the beginning of a number - the dialer waits 10 seconds or waits for dial tone, whichever comes first and then dials.
D	<#> ⇒ <3>	Applicable <i>only</i> at the beginning of a number - the dialer waits 5 seconds for dial tone and goes on hook if none is received.
E	<#> ⇒ <4>	Applicable <i>only</i> in the middle of the number - the dialer waits 5 seconds
F	<#> ⇒ <5>	Not applicable in phone numbers

**Note:** A "+" can be entered at the beginning of the line by pressing  and then .

To enter a series of digits, use the following keys:  
<Numeric keypad> - to enter the number  
 - moves the cursor from left to right  
 - moves the cursor from right to left  
 - deletes everything after the cursor (to the right).

#### 4.5.1 PSTN / GSM (Fig. 4.5 Detail A)

**Area Code** [Fig 4.5.1(1)]

Here you enter the system tel. area code (up to 4 digits).

**Line Prefix** [Fig 4.5.1(2)]

Here you enter the number that is used as a prefix to access an outside telephone line (if exists).

**Dial Method** [Fig 4.5.1(3)]

Here you determine the dialing method used by the automatic dialer built into the PowerMax Pro control panel.

The options are: **Pulse** and **tone (dtmf)**.

**GSM Keep Alive** [Fig 4.5.1(4)]

Here you prevent the GSM service provider from disconnecting the GSM line if the user has not initiated any outgoing telephone calls during the last 28 days.

The options are: **disable** and **every 28 days**.

**Note:** *A test message is sent to the first available SMS number. If this does not exist then it makes a call to the first private number.*

#### 4.5.2 GPRS / BB (Fig. 4.5 Detail B)

The GSM/GPRS module is capable of communicating with the Central Station receiver by GPRS, GSM Voice and SMS channels. Each of the channels can be separately enabled or disabled in order to allow or prohibit the module from using it for the event reporting. If all channels are enabled, the GSM/GPRS module will always try GPRS first. If fails, it will try GSM Voice. If fails, it will try any other possible method (PSTN, Broadband) and only then it will try SMS. This is due to the fact that SMS is the most

unreliable option of communication. Disabling any of the GSM Module channels will cause the module to use a different sequence than the one described above.

**GPRS Report** [Fig 4.5.2(1)]

Here you determine whether the alarm system will report events to the central station via the GPRS channel.

The options are: **disable** and **enable**.

**GSM Report** [Fig 4.5.2(2)]

Here you determine whether the alarm system will report events to the central station via the GSM voice channel.

The options are: **disable** and **enable**.

**SMS Report** [Fig 4.5.2(3)]

Here you determine whether the alarm system will report events to the central station via the SMS channel.

The options are: **disable** and **enable**.

**GPRS APN** [Fig 4.5.2(4)]

Here you enter the name of the APN (Access Point) used for the internet settings for the GPRS (up to 40 digits).












**GPRS Username** [Fig 4.5.2(5)]

Here you enter the username of the APN used for GPRS communications (up to 30 digits).

**GPRS Password** [Fig 4.5.2(6)]

Here you enter the password of the APN used for GPRS communications (up to 16 digits).

The following table provides a list of the keys used by the PowerMax Pro editor for the GPRS APN, GPRS Username, GPRS Password menus and Custom Zone Name option.

Key	Functionality
	Moves the cursor from left to right. Long press for speed.
	Moves the cursor from right to left. Long press for speed.
	Scrolls upward the sequence of inserted digits. Long press for speed.
	Scrolls downward the sequence of inserted digits. Long press for speed.
	Places cursor to extreme right position of edit string and shows the last 16 digits of edit string.
	Reverts to previous or top menu without saving the edit string.
	Reverts to "<OK> TO EXIT" without saving the edit string.
	Saves and reverts to previous menu.
	Clears all digits to the right of cursor.
	Clears one digit by cursor.
	Selects between uppercase or lowercase digits.

**Note:** *The "Ń" digit replaces the "@" digit which is not included in the PowerMax Pro editor.*

**PIN Code** [Fig 4.5.2(7)]

Enter PIN code of the SIM card installed in the PowerMax Pro unit (up to 16 digits).

**Force Home Network** [Fig 4.5.2(8)]

Here you determine whether to force the SIM card to use the home network only and not to select another network in case the home network cannot be found.

The options are: **disable** and **enable**.

### 4.5.3 C.S. Reporting (Fig. 4.5 Detail C)

**Report Events** [Fig 4.5.3(1)] – see note in Fig. 4.5 Detail C  
Here you determine which types of event will be reported to central stations. Due to lack of space in the display, abbreviations are used: alarm is “**alarm**”, alert is “**alrt**” and open/close is “**o/c**”. The asterisk (\*) is a separator between events reported to **central station 1** and events reported to **central station 2**.

Messages are divided by type into four groups:

No.	Group	Events Reported
1	Alarms	Fire, Burglary, Panic, Tamper
2	Open/close	Arming AWAY, Arming HOME, Disarming
3	Alerts	No-activity, Emergency, Latchkey, Gas, Flood, Temperature
4	Maintenance	Low-battery AC failure

“Alarm” group has the highest priority and “Alert” group has the lowest priority.

The selectable options are as follows:

Plan name	Sent to center 1	Sent to center 2
all -o/c * backup	All but open/close	All but open/close if center 1 doesn't respond
all * all	All	All
all-o/c * all -o/c	All but open/close	All but open/close
all -o/c * o/c	All but open/close	Open/close
all (-alrt) * alrt	All but alerts	Alerts
Alarm * all (-alarm)	Alarms	All but alarms
Disable report	Nothing	Nothing
all * backup	All	All if cent. 1 doesn't respond

**Note:** “**All**” means that all 4 groups are reported and also trouble messages - sensor / system low battery, sensor inactivity, power failure, jamming, communication failure etc.

#### 1st Report Method [Fig 4.5.3(2)]

Here you define the 1st priority of method used to report events. The options are: **disable**, **cellular** and **PSTN**.

#### 2nd Report Method [Fig 4.5.3(3)]

Here you define the 2<sup>nd</sup> priority of method used to report events. If the method defined to report events in the 1st priority fails, the control panel will attempt to report using the method defined in the 2nd priority (see notes in 1<sup>st</sup> Report Method).

The options are: **disable**, **cellular** and **PSTN**.

#### 3rd Report Method [Fig 4.5.3(4)]

Here you define the 3<sup>rd</sup> priority of method used to report events. If the method defined to report events in the 2<sup>nd</sup> priority fails, the control panel will attempt to report using the method defined in the 3rd priority (see notes in 1<sup>st</sup> Report Method).

The options are: **disable**, **cellular** and **PSTN**.

#### Dual Reporting [Fig 4.5.3(5)]

Here you determine whether to report events using PSTN and cellular at the same time instead of waiting for the 1<sup>st</sup> method to fail before trying the 2<sup>nd</sup> method.

The options are: **disable** and **PSTN & cellular**.

**Receiver 1 Account No.** [Fig 4.5.3(6)] - see note in Fig. 4.5 Detail C

Here you enter the number that will identify your specific alarm control system to the 1<sup>st</sup> central station. The number consists of 6 hexadecimal digits.

**Receiver 2 Account No.** [Fig 4.5.3(7)] - see note in Fig. 4.5 Detail C

Here you enter the number that will identify your system to the 2<sup>nd</sup> central station. The account number consists of 6 hexadecimal digits.

**PSTN/GSM RCVR1** [Fig 4.5.3(8)] - see note in Fig. 4.5 Detail C

Here you program telephone number of the 1<sup>st</sup> central station (including area code, 16 digit max) to which the system will report the event groups defined in Report Events.

**PSTN/GSM RCVR2** [Fig 4.5.3(9)] - see note in Fig. 4.5 Detail C

Here you program telephone number of the 2<sup>nd</sup> central station (including area code, 16 digit max) to which the system will report the event groups defined in Report Events.

#### IP RCVR 1 [Fig 4.5.3(10)]

Here you enter the IP address of the IP receiver that is located in the 1<sup>st</sup> central station.

#### IP RCVR 2 [Fig 4.5.3(11)]

Here you enter the IP address of the IP receiver that is located in the 2<sup>nd</sup> central station.

#### SMS RCVR 1 [Fig 4.5.3(12)]

Here you enter the telephone number of the SMS receiver that is located in the 1<sup>st</sup> central station.

#### SMS RCVR 2 [Fig 4.5.3(13)]

Here you enter the telephone number of the SMS receiver that is located in the 2<sup>nd</sup> central station.

**PSTN Report Format** [Fig 4.5.3(14)] - see note in Fig. 4.5 Detail C

Here you select the reporting format used by the control panel to report events to central stations.

The options are: **SIA text** ■ **Contact-ID** ■ **SIA** ■ **4/2 1900/1400** ■ **4/2 1800/2300** ■ **Scancom** (see Appendix C - code lists).

#### 4/2 Pulse Rate [Fig 4.5.3(15)] - see note in Fig. 4.5 Detail C

Here you select the pulse rate at which data will be sent to central stations if any one of the 4/2 formats has been selected in PSTN Report Format.

The options are: **10**, **20**, **33** and **40** pps.

**PSTN Report Retry** [Fig 4.5.3(16)] - see note in Fig. 4.5 Detail C

Here you determine the number of times the communicator will dial the central station's number via PSTN.

The options are: **2**, **4**, **8**, **12** and **16** attempts.

**GSM Report Retry** [Fig 4.5.3(17)] - see note in Fig. 4.5 Detail C

Here you determine the number of times the communicator will try to report via a cellular group (GPRS, GSM and SMS) to the central station.

The options are: **2**, **4**, **8**, **12** and **16** attempts.

#### Auto Test Time [Fig 4.5.3(18)]

Here you determine the time at which the telephone line will be tested and reported to the central station.

#### Auto Test Cycle [Fig 4.5.3(19)]

Here you determine the time interval between consecutive telephone line test messages sent to the central station. The control panel performs this at regular intervals to verify proper communications.

The options are: **test every 5 hours**, **test every 1, 2, 5, 7, 14, 30 days** and **test OFF**.

#### Line Fail Report [Fig 4.5.3(20)]

##### PSTN [Fig 4.5.3(20a)]

Here you determine if the PSTN telephone line disconnection will be reported or not and determine the delay between detection of line disconnection and the failure reporting. If the telephone line is disconnected, the message “tel line fail” will be stored in the event log.

The options are: **don't report**, **immediately**, **5 minutes**, **30 minutes**, **60 minutes** or **180 minutes**.

### GSM/GPRS [Fig 4.5.3(20b)]

Here you determine if the GSM/GPRS line disconnection will be reported or not and determine the delay between detection of line disconnection and report failure. If the telephone line is disconnected, the message "GSM line fail" will be stored in the event log.

The options are: **don't report, 2 minutes, 5 minutes, 15 minutes, or 30 minutes.**

### PSTN Up / Down [Fig 4.5.3(21)]

#### Remote Access [Fig 4.5.3(21a)]

Here you give or deny permission to access the system and exercise control from a remote telephone.

The options are: **rem. access ON** and **rem. access OFF.**

#### Mast. Downl Code [Fig 4.5.3(21b)]

Here you determine the master installer 4-digit password for downloading/uploading data into/from the PowerMax Pro memory.

**Attention! If "0000" is used, it will not enable connection of the PowerMax Pro to the PC for upload/download purpose.**

#### Inst. Downl Code [Fig 4.5.3(21c)]

Here you determine the installer 4-digit password for downloading data into the PowerMax Pro memory.

**Attention! If "0000" is used, it will not enable connection of the PowerMax Pro to the PC for upload/download purpose.**

#### Upload Option [Fig 4.5.3(21d)]

Here you determine whether the PowerMax Pro data can be uploaded into a computer while the system is in disarm state or at any time (in HOME/AWAY arming & disarm state).

The options are: **when system OFF** and **any time**

#### Up Download Tel# [Fig 4.5.3(21e)]

Here you enter the telephone number (up to 16 digits) of the UL/DL server.

**Note: Only for use with control panels monitored by compatible central stations. Leave empty if not used.**

### GPRS Up / Down [Fig 4.5.3(22)]

#### My SIM Tel. # [Fig 4.5.3(22a)]

Here you enter the PowerMax SIM card telephone number. The central station dials this number when it needs to connect to the PowerMax Pro for uploading / downloading data.

#### 1<sup>st</sup> Caller ID# [Fig 4.5.3(22b)]

Here you determine the 1<sup>st</sup> VDNS receiver telephone number. When the PowerMax Pro responds to an incoming call from the telephone number defined here, it creates a connection to the VDNS for uploading / downloading data.

#### 2<sup>nd</sup> Caller ID# [Fig 4.5.3(22c)]

Here you determine the 2<sup>nd</sup> VDNS receiver telephone number. When the PowerMax Pro responds to an incoming call from the telephone number defined here, it creates a connection to that VDNS for uploading / downloading data.

### 2 Way Voice Def. [Fig 4.5.3(23)]

#### Send 2 WV Code [Fig 4.5.3(23a)] - see note in Fig. 4.5 Detail C

Here you determine whether the system will send two-way voice code to the central station (to turn the central station from data communication to voice communication state) by using pre-selected SIA or Contact-ID communication format only.

The options are: **send** and **don't send.**

#### Two Way Voice Central Stations [Fig 4.5.3(23b)] - see note in Fig. 4.5 Detail C

Here you select the timeout for 2-way voice communication with Central Stations, or enable the central station to ring back for 2-way voice function. This option is applicable only after reporting an event to the central station. (The central

station person can press [3] for listen-in", [1] for "speak out" or [6] for listening and speaking).

The options are: **10, 45, 60, 90 seconds, 2 minutes, ring back and disable** (no two-way voice communication).

**Note: If "Ring Back" is selected, you should select "Disable Report" for private telephone (see par. 4.5.4(1) - Reporting to Private Telephones), otherwise the central station will establish communication with the PowerMax Pro (after an event occurrence) in the normal manner (and not after one ring).**

#### Ringback Time [Fig 4.5.3(23c)] - see note in Fig. 4.5 Detail C

Here you determine the period during which the central station can establish 2-way voice communication with the PowerMax Pro (after 1 ring), if:

A. Alarm type message was received by central station.

B. Ring Back function was selected [see par. 4.5.3(23b)].

The options are: **1, 3, 5 or 10 minutes.**

#### Ambient Level [Fig 4.5.3(23d)]

Here you select the ambient noise level of the installation. If it is a relatively noisy environment, set it to High (default setting). If it is a very quiet environment, set to Low.

The options are: **low** and **high.**

#### Report Cnfrm Alarm [Fig 4.5.3(24)] - see note in Fig. 4.5 Detail C

Here you determine whether the system will report whenever 2 or more events (**confirmed alarm**) occur during a specific period (see par. 4.4.33).

Available options are: **enable report, disable report, enable + bypass** (enabling report and bypassing the detector - applicable to PowerMax Pro that is compatible with DD243 standard).

#### Report 24H Zones [Fig 4.5.3(25)]

Here you determine whether 24 hour (silent and audible) zones will function as normal 24 hour zones or as panic zones.

The options are: **both original, audible as panic, silent as panic, or both as panic.**

#### Recent Close [Fig 4.5.3(26)]

Here you enable or disable the "recent closing" report, that is sent to the central station if an alarm occurs within 2 minutes from the expiry of the exit delay.

The options are: **recent close ON** and **recent close OFF.**

#### Zone restore [Fig 4.5.3(27)]

Here you determine whether a zone restore will be reported or not.

The options are: **report restore** and **don't report.**

#### System Inactivity Report [Fig 4.5.3(28)]

Here you determine whether the central station will receive a message if the system is inactive (not armed) during a defined period (days).

The options are: **disable, rep. after 7d, rep. after 14d, rep. after 30d, rep. after 90d.**

## 4.5.4 Private Report (Fig. 4.5 Detail D)

### Report To Private [Fig 4.5.4(1)]

Here you determine which event groups will be reported to private telephone subscribers. The options are as follows:

Term	Description
all	All messages
all (-op/cl)	All messages, except open/close
all (-alerts)	All messages, except alerts
alarms	Alarm messages
alerts	Alert messages
op/cl	Open/close
disable report	No message will be reported

**Note: "All" means all events including the L. BAT and AC FAIL trouble messages.**

## Voice report [Fig 4.5.4(2)]

### 1<sup>st</sup> Private Tel# [Fig 4.5.4(2a)]

Here you program the 1<sup>st</sup> telephone number (including area code, if required) of the private subscriber to which the system will report the event groups defined in Report To Private.

### 2<sup>nd</sup> Private Tel# [Fig 4.5.4(2b)]

Here you program the 2<sup>nd</sup> telephone number (including area code, if required) of the private subscriber to which the system will report the event groups defined in Report To Private.

### 3<sup>rd</sup> Private Tel# [Fig 4.5.4(2c)]

Here you program the 3<sup>rd</sup> telephone number (including area code, if required) of the private subscriber to which the system will report the event groups defined in Report To Private.

### 4<sup>th</sup> Private Tel# [Fig 4.5.4(2d)]

Here you program the 4<sup>th</sup> telephone number (including area code, if required) of the private subscriber to which the system will report the event groups defined in Report To Private.

## Redial Attempts [Fig 4.5.4(2e)]

Here you determine the number of times the communicator will dial the called party's number (private telephone).

The options are: **1, 2, 3 and 4 attempts.**

**Attention! A maximum of 2 dialing attempts is permitted by the Australian Telecommunication Authority.**

## Two-Way Voice - Private Phones [Fig 4.5.4(2f)]

Here you determine whether 2-way voice communication with private telephones will be allowed or not.

The options are: **enable 2-way** and **disable 2-way**.

## Tel. acknowledge [Fig 4.5.4(2g)]

Here you determine whether the system will use the single acknowledge or the all acknowledge mode when reporting to private telephones.

**Note:** In the single acknowledge mode, receiving an acknowledge signal from a single telephone is sufficient to consider the current event closed and call off the communication session. The remaining telephones serve for backup purposes only. In the all acknowledge mode, an acknowledge signal must be received from each telephone before the current event is considered reported.

The options are: **single ack** and **all ack**.

## SMS Report Tel# [Fig 4.5.4(3)]

### 1<sup>st</sup> SMS Tel# [Fig 4.5.4(3a)]

Here you define the first SMS phone number (including area code, 16 digits maximum) to which pre-selected event types will be reported.

### 2<sup>nd</sup> SMS Tel# [Fig 4.5.4(3b)]

Here you define the second SMS phone number (including area code, 16 digits maximum) to which pre-selected event types will be reported.

### 3<sup>rd</sup> SMS Tel# [Fig 4.5.4(3c)]

Here you define the third SMS phone number (including area code, 16 digits maximum) to which pre-selected event types will be reported.

### 4<sup>th</sup> SMS Tel# [Fig 4.5.4(3d)]

Here you define the fourth SMS phone number (including area code, 16 digits maximum) to which pre-selected event types will be reported.

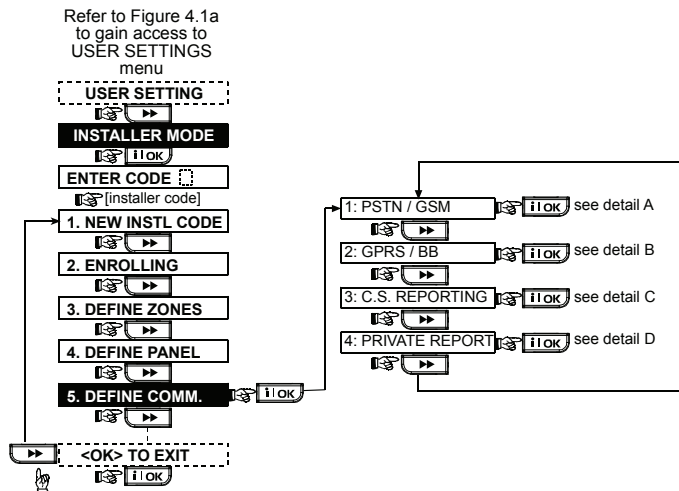
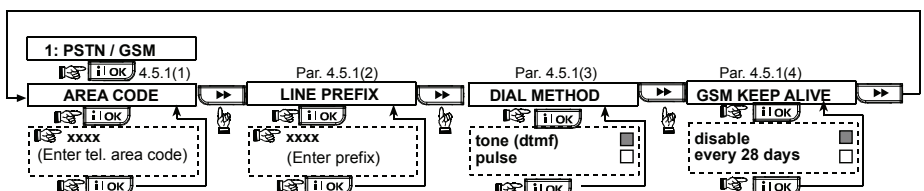


Figure 4.5 – Defining Communications

## FIGURE 4.5 - DETAIL A

**Note**  
The currently saved options are displayed with dark box at the right side of the display. To review the options, repeatedly click >> or << until the desired option is displayed, then click OK (a dark box will be displayed at the right side).



## FIGURE 4.5 - DETAIL B

**Note**

The currently saved options are displayed with dark box at the right side of the display. To review the options, repeatedly click or until the desired option is displayed, then click OK (a dark box will be displayed at the right side).

**2: GPRS/BB**

Par. 4.5.2(1)

**GPRS REPORT**

disable ☐

enable ☐

Par. 4.5.2(2)

**GSM REPORT**

disable ☐

enable ☐

Par. 4.5.2(3)

**SMS REPORT**

disable ☐

enable ☐

Par. 4.5.2(4)

**GPRS APN**

(Enter name of APN)

Par. 4.5.2(5)

**GPRS USERNAME**

(Enter GPRS username)

Par. 4.5.2(6)

**GPRS PASSWORD**

(Enter GPRS password)

Par. 4.5.2(7)

**SIM PIN CODE**

(Enter SIM card PIN code)

Par. 4.5.2(8)

**FORCE HOME NETW.**

disable ☐

enable ☐

## FIGURE 4.5 - DETAIL C

**Note**

For Control Panel that has **installer code & master installer code**, the following functions are available only if the **MASTER INSTALLER** code is entered:

PSTN/GSM RCVR1  
RCVR 1 ACCOUNT#  
PSTN/GSM RCVR2  
RCVR 2 ACCOUNT#  
PSTN RPRT FORMAT  
4/2 PLS RATE  
REPORT EVENTS  
RPRT CNFRM ALRM  
SEND 2VV CODE  
VOICE ↔ C.S.  
RINGBACK TIME  
PSTN RPRT RETRY  
GSM RPRT RETRY  
MAST. DL CODE

**Note**

The currently saved options are displayed with dark box at the right side of the display. To review the options, repeatedly click or until the desired option is displayed, then click OK (a dark box will be displayed at the right side).

**3:C.S. REPORTING**

Par. 4.5.3(1)

**REPORT EVENTS**

all - o/c \* backup ☐

\* all ☐

all - o/c \* all - o/c ☐

all - o/c \* o/c ☐

all (-alrt) \* alrt ☐

alarm \* all (-alarm) ☐

disable report ☐

all \* backup ☐

Par. 4.5.3(2)

**1st RPRT METHOD**

disable ☐

cellular ☐

PSTN ☐

Par. 4.5.3(3)

**2nd RPRT METHOD**

disable ☐

cellular ☐

PSTN ☐

Par. 4.5.3(4)

**3rd RPRT METHOD**

disable ☐

cellular ☐

PSTN ☐

Par. 4.5.3(5)

**DUAL REPORTING**

disable ☐

PSTN & cellular ☐

Par. 4.5.3(6)

**RCVR 1 ACCOUNT#**

(Enter RCVR 1 account No.)

Par. 4.5.3(7)

**RCVR 2 ACCOUNT#**

(Enter RCVR 2 account No.)

Par. 4.5.3(8)

**PSTN/GSM RCVR1**

(Enter Tel. No.)

Par. 4.5.3(9)

**PSTN/GSM RCVR2**

(Enter Tel. No.)

Par. 4.5.3(10)

**IP RCVR 1**

(Enter IP address)

Par. 4.5.3(11)

**IP RCVR 2**

(Enter IP address)

Par. 4.5.3(12)

**SMS RCVR 1**

(Enter Tel. No.)

Par. 4.5.3(13)

**SMS RCVR 2**

(Enter Tel. No.)

Par. 4.5.3(14)

**PSTN RPRT FORMAT**

SIA ☐

4/2 1900/1400 ☐

4/2 1800/2300 ☐

Scancom ☐

SIA text ☐

contact ID ☐

Par. 4.5.3(15)

**4/2 PULSE RATE**

20 pps ☐

33 pps ☐

40 pps ☐

10 pps ☐

Par. 4.5.3(16)

**PSTN RPRT RETRY**

2 attempts ☐

4 attempts ☐

8 attempts ☐

12 attempts ☐

16 attempts ☐

Par. 4.5.3(17)

**GSM RPRT RETRY**

2 attempts ☐

4 attempts ☐

8 attempts ☐

12 attempts ☐

16 attempts ☐

Par. 4.5.3(18)

**AUTO TEST TIME**

test time 12:00P (Enter time)

Par. 4.5.3(19)

**AUTO TEST CYCLE**

test OFF ☐

test every 1 d ☐

test every 2 d ☐

test every 5d ☐

test every 7 d ☐

test every 14 d ☐

test every 30 d ☐

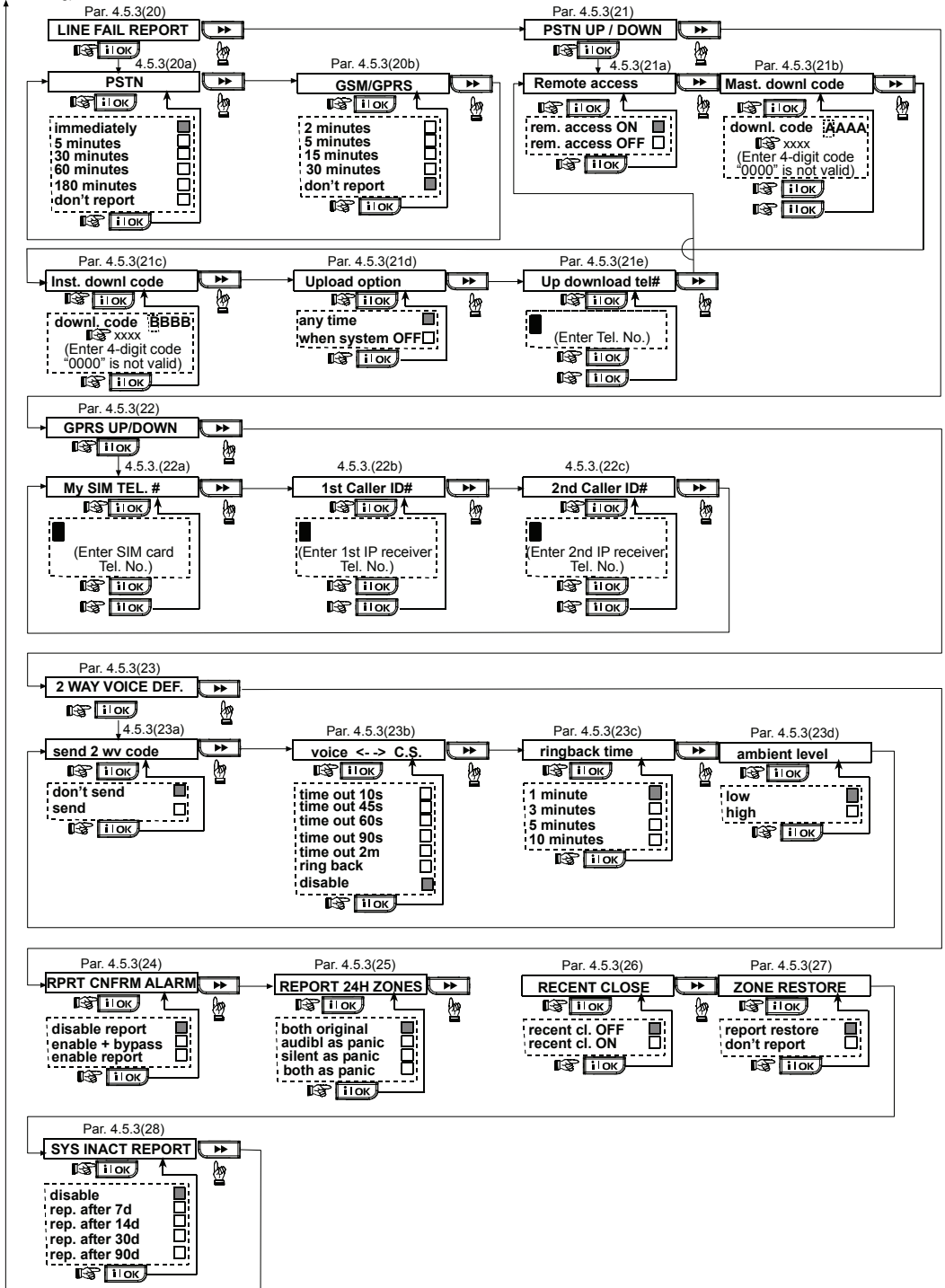
test every 5 h ☐

Continues in next Figure



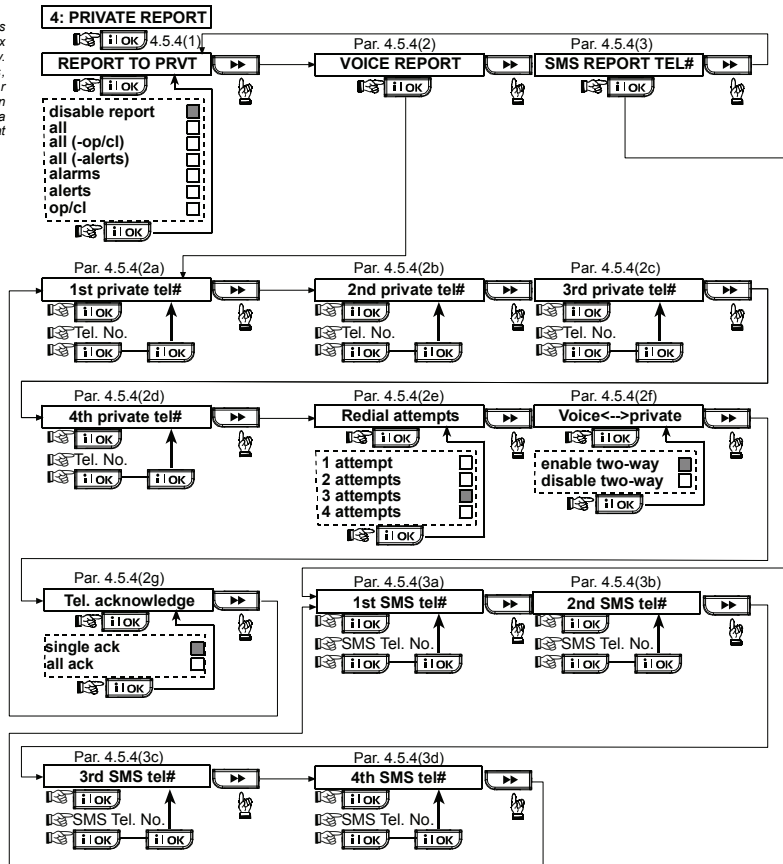
**FIGURE 4.5 - DETAIL C continued**

**REPORT EVENTS**  
(see DETAIL C  
in previous drawing)



## FIGURE 4.5 - DETAIL D

**Note**  
The currently saved options are displayed with dark box at the right side of the display. To review the options, repeatedly click or until the desired option is displayed, then click OK (a dark box will be displayed at the right side).



## 4.6 GSM Auto Detection

The GSM modem auto detection feature enables automatic enrollment of the GSM modem into the PowerMax Pro control panel memory. GSM modem auto detection is activated in one of two ways: after tamper restore and after reset (power-up or after exiting the installer menu). This causes the PowerMax Pro to automatically scan GSM COM ports for the presence of the GSM modem.

In the event that the GSM modem auto detection fails and the modem was previously enrolled in the PowerMax Pro control panel, the message "Cel Rmvd Cnfrm" will be displayed. This message will disappear from the display only after the user clicks . The modem is then considered as not enrolled and no GSM trouble message will be displayed.

**Note:** A message is displayed only when the PowerMax Pro alarm system is disarmed.

## 4.7 PowerLink Auto Detection

The PowerLink modem auto detection feature enables automatic enrollment of the PowerLink modem into the PowerMax Pro control panel memory. PowerLink modem auto detection is activated in one of two ways: after tamper restore and after reset (power-up or after exiting the installer menu). This causes the PowerMax Pro to automatically scan PowerLink COM ports for the presence of the PowerLink modem.

In the event that the PowerLink modem auto detection fails and the modem was previously enrolled in the PowerMax Pro control panel, the message "BBA Remvd Cnfrm" will be displayed. This message will disappear from the display only after the user clicks . The modem is then considered as not enrolled and no PowerLink trouble message will be displayed.

**Note:** A message is displayed only when the PowerMax Pro alarm system is disarmed.




## 4.8 DEFINING OUTPUT PARAMETERS

### 4.8.1 Preliminary Guidance

This mode enables you to determine X-10 / PGM outputs.

a. Events/conditions selection under which PGM (programmable) output and fifteen "X-10" devices will function.

- b. Function type selection for every X-10 unit and PGM output.
- c. General definitions selection for X-10 units.
- d. Selection of the internal siren or STROBE light (that will be activated according to system programming).
- e. Enrolling 2-way X-10 units.

The process is shown in Fig. 4.8. Each selected option is displayed with a dark box at the right side. To review the options, repeatedly click  or  button, until the desired option is displayed, then click  button.

**Note:** The X-10 and the PGM outputs operate on the entire alarm system and not per partition (in a PowerMax Pro Partition system).

## 4.8.2 Define PGM

For the PGM output, you can select **disable**, **turn on**, **turn off** or **pulse active** (turn on for predefined period, selected by **PULSE TIME**), as follows:

- **BY ARM AWAY** (upon AWAY arming).
- **BY ARM HOME** (upon HOME arming).
- **BY DISARM** (upon disarming).
- **BY MEMORY** (activated upon registration of an alarm in the memory, turned off upon memory clearing).
- **BY DELAY** (during exit / entry delays).
- **BY KEYFOB** (upon AUX button pressing in the keyfob transmitter / MCM-140+, if "**PGM/X-10**" is selected in "Define Panel" menu, locations 17 and 18).
- **BY ZONES** (by disturbance in each of 3 selected zones, irrespective of arming / disarming). If you select **toggle**, the PGM output will be turned on upon event occurrence in these zones and will be turned off upon next event occurrence, alternately.
- **BY LINE FAIL:** PGM output is ON if telephone line is disconnected.

## 4.8.3 Defining INT/STRB

Here you determine whether the INT output will be used for an **internal siren** or for a **strobe**. If **strobe** is selected, the INT output will be activated when an alarm occurs until the system is disarmed (i.e. clearing alarm memory).

## 4.8.4 X-10 GENERAL DEF

For X-10 devices, you can select the following actions:

- **FLASH ON ALARM** - you can select **no flash** or **all light flash**, to control X-10 lighting devices in alarm conditions.
- **TRBL INDICATION** - you can select **don't indicate** or **indicate** for X-10 failure indication by the TROUBLE LED.
- **FAIL REPORT** - you can select **report to central station 1**, **report to central station 2**, **report to private telephone** and **send SMS**, for X-10 devices failure reporting.

- **3 PHASES & FREQ** (you can select **disable 3 phase**, **3 phase 50 Hz**, or **3 phase 60 Hz** to define the X-10 signal transmission type).

- **LOCKOUT TIME** - you can enter daytime limits between which X-10 lighting devices controlled by sensors will be off, even when the associated sensors are triggered.

## 4.8.5 X-10 UNIT DEFINE

For the fifteen X-10 units you can perform the following programming actions:

- a. House code selection (a code letter from A to P that will distinguish the site in which the system is installed from other sites in the neighborhood).
- b. Specific number definition for every X-10 unit (01 – 15).
- c. Enrolling 1-way X-10 units
- d. Enrolling 2-way X-10 units (that can perform status reporting).

**Note:** If a 2-way X-10 unit is installed without enrolling, interference to the 1-way X-10 units operation may occur.

- e. For each X-10 unit you can select **disable**, **turn on**, **turn off** or **pulse active** (turn on for predefined period, selected by **PULSE TIME**), upon the following conditions:

- **X-10 LOCATION** (the location of the stored X-10 unit).
- **BY ARM AWAY** (upon AWAY arming).
- **BY ARM HOME** (upon HOME arming).
- **BY DISARM** (upon disarming).
- **BY MEMORY** (activated upon registration of an alarm in the memory, turned off upon memory clearing).
- **BY DELAY** (during exit / entry delays).
- **BY KEYFOB** (upon AUX button pressing in the keyfob transmitter / MCM-140+, if "**PGM/X-10**" is selected in "Define Panel" menu, location 17).
- **BY ZONES** (by disturbance in each of 3 selected zones, irrespective of arming / disarming). If you select **toggle**, the X-10 output will be turned on upon event occurrence in these zones and will be turned off upon next event occurrence, alternately.

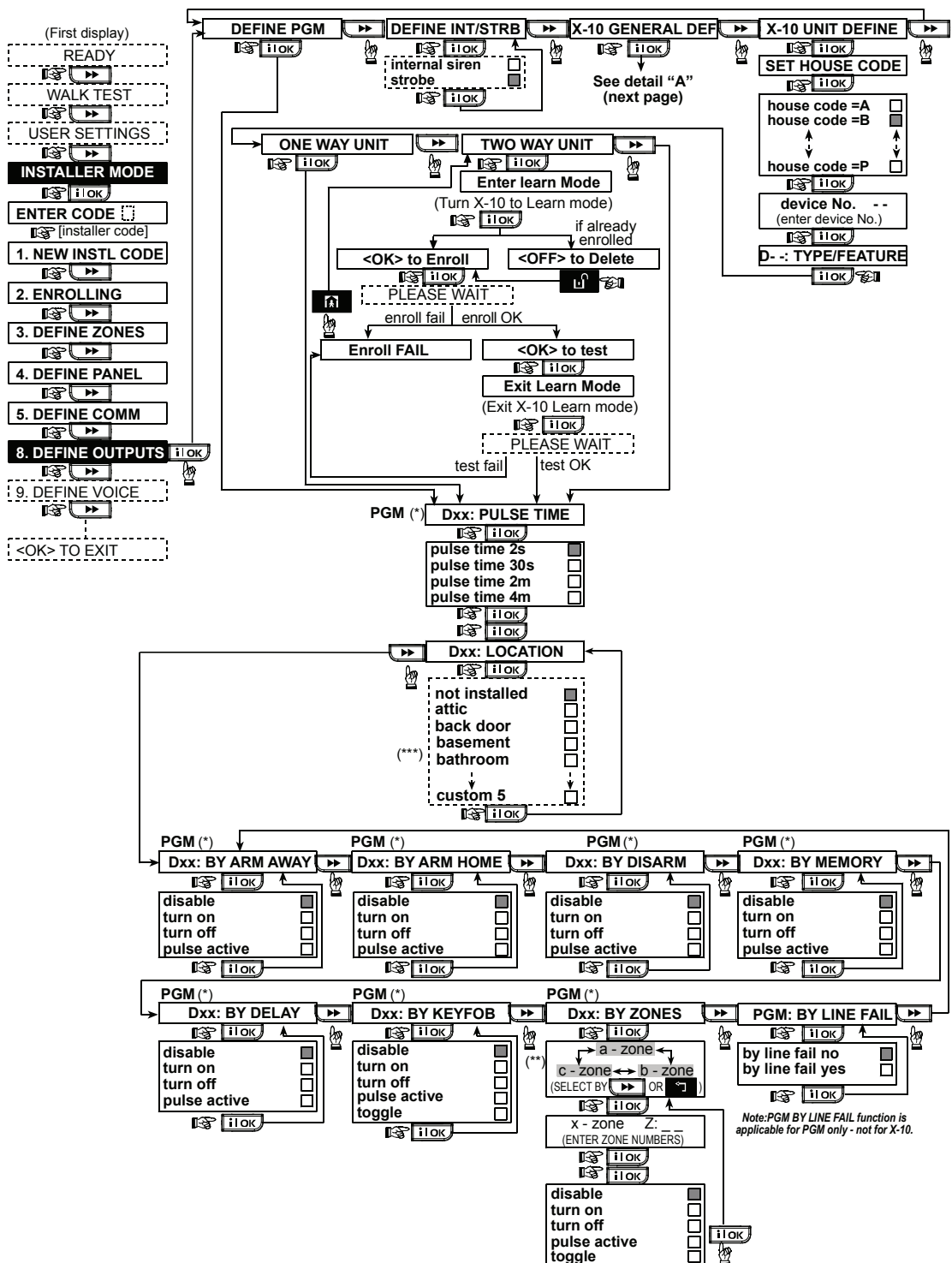


Figure 4.8 - Define Outputs Flow Chart

\* If PGM is selected, the letters "PGM" will be displayed instead of "Dxx".

\*\* Upon selecting any one of the 3 options (zone a, b and c) you may enter a zone number and then select "disable", "turn on", "turn off", "pulse active" or "toggle".

\*\*\* The currently saved option is displayed with a dark box at the right side. To review the options, repeatedly click button until the desired option is displayed, then click (a dark box will be displayed at the right side). For zone name list, refer to paragraph 4.3 (DEFINE ZONE TYPES). Each X-10 unit's default zone name is "Not installed".

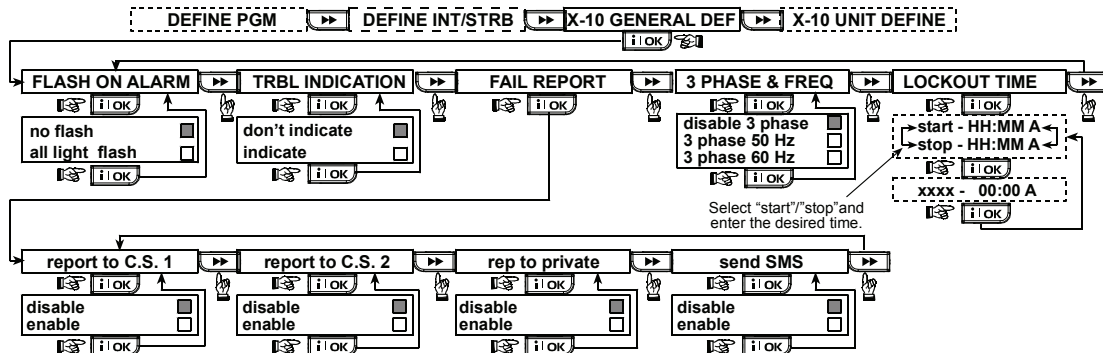


Figure 4.8 - Detail A

## 4.9 DEFINE VOICE

### 4.9.1 Record Speech

This mode allows you to record short-duration speech messages for the following purposes:

- **House identity** is a message announced automatically when events are reported to private telephones.
- **4 User Names** can be recorded and assigned to users numbered 5-8. In case of event, the relevant user name will be added to the message that will be reported via the telephone.

- **5 custom zone names** can be recorded and assigned to specific zones. These names are useful if none of the 26 fixed zone names are found suitable for a certain zone (see fig. 4.3).
- **Edit custom zone names** enables you to edit the names that have been assigned to zones.

The recording process is shown below.

### 4.9.2 Speech Box Mode

This mode allows you to determine whether two-way voice communication is to be sounded either via an external speakerphone, via the PowerMax Pro, or via both.

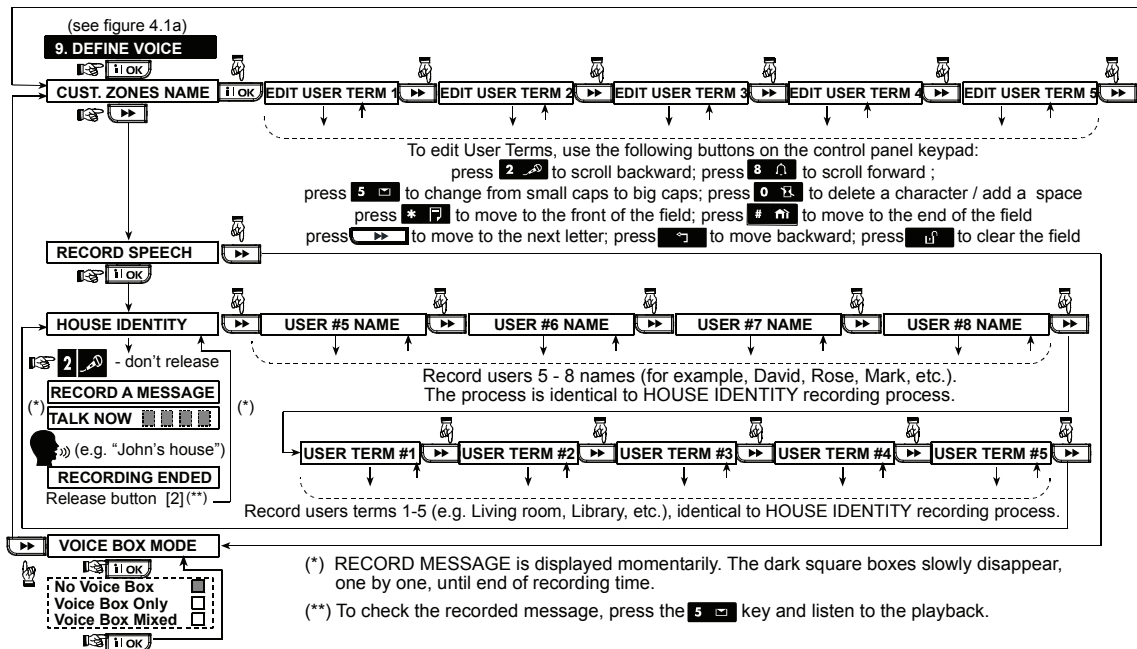


Figure 4.9 - Speech Recording Flow Chart



## 4.10 DIAGNOSTIC TEST

This mode allows you to test the function of all protected area wireless sensors / wireless sirens / wireless keypads and to receive / review information regarding the received signal strength. The diagnostics procedure also tests GSM/GPRS communication and reports the diagnostic result. In case of communication failure detailed information is reported.

Three reception levels are sensed and reported:

Received Signal Strength Indication:

Reception	Buzzer Response
<b>Strong</b>	Happy Tune twice ( - - - — ) ( - - - — )
<b>Good</b>	Happy Tune ( - - - — )
<b>Poor</b>	Sad tune ( — — — )

The following GSM/ GPRS messages are reported:

Message	Description
<b>Unit is OK</b>	GSM / GPRS functioning properly.
<b>GSM comm. loss</b>	The GSM/GPRS module does not communicate with the Panel
<b>Pin code fail</b>	Missing or wrong PIN code. (Only if SIM card PIN code is enabled.)
<b>GSM net. fail</b>	Unit failed with registration to local GSM network.
<b>SIM card fail</b>	SIM not installed or SIM card failure.
<b>GSM not detected</b>	GSM auto enroll failed to detect GSM/GPRS module.
<b>No GPRS service</b>	The SIM card does not have the GPRS service enabled.
<b>GPRS conn. fail</b>	Local GPRS network is not available or, wrong setting to GPRS APN, user and/or password.

Message	Description
<b>Srvr unavailable</b>	VDNS Receiver cannot be reached – Check the Server IP
<b>IP not defined</b>	Server IP #1 and #2 are not configured.
<b>APN not defined</b>	APN is not configured.
<b>SIM card locked</b>	After entering a wrong PIN code 3 consecutive times the SIM is locked. To unlock it enter a PUK number. The PUK number cannot be entered by the PowerMax Pro.
<b>Denied by server</b>	The VDNS denies the connection request. Check that the Panel is registered on the VDNS Receiver.

When you are instructed to perform "walk-test", walk throughout the site to check the detectors / sensors. When a detector /sensor is triggered into alarm, its name, number and the alarm reception level should be indicated (for example, "Bathroom", "Z19 strong") and the buzzer should sound according to the alarm reception level (1 of 3).

**IMPORTANT! Reliable reception must be assured. Therefore, a "poor" signal strength is not acceptable. If you get a "poor" signal from a certain detector, re-locate it and re-test until a "good" or "strong" signal strength is received. This principle should be followed during the initial testing and also throughout subsequent system maintenance.**

The diagnostic test process is shown in Figure 4.10.

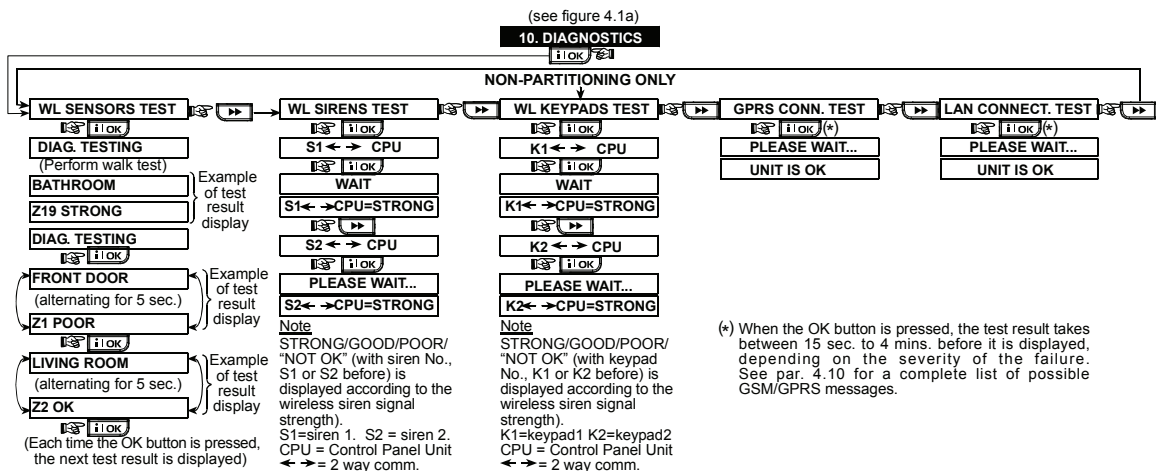


Figure 4.10 - Diagnostic Test Flow Chart

## 4.11 USER FUNCTIONS

This mode provides you with a gateway to the user functions through the regular user programming menu.

Refer to the User Guide for detailed procedures.

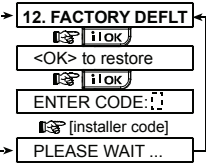
**Caution! If after having programmed the user codes the system does not recognize your installer code, this indicates you must have programmed a user code that is identical with your installer code. If so, access the user menu and change the code that is identical with your installer code. This will re-validate your installer code.**

## 4.12 RETRIEVING FACTORY DEFAULTS

If you want to reset the PowerMax Pro parameters to the factory default parameters, you should enter the installer menu and perform the "FACTORY DEFLT" function, as described in the right side illustration. To get the relevant parameters defaults, contact the PowerMax Pro dealer.

**Note:** For PowerMax Pro with 2 installer codes, **INSTALLER code** and **MASTER INSTALLER code**, only the **master installer code** enables to perform factory default function.

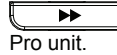
Entering to/exit from the FACTORY DEFLT menu is shown in figure 4.1a



This is a brief display after which all the factory defaults are retrieved.

## 4.13 SERIAL NUMBER

The menu "13. SERIAL NUMBER" enables reading the system serial number for support purposes only. Clicking



enables reading the version of the PowerMax Pro unit.

## 4.14 CALLING UPLOAD/DOWNLOAD SERVER

This option allows the installer to initiate a call to the upload/download server. The server uploads the

PowerMax Pro configuration to its data base and can unload predefined parameters to the PowerMax Pro

**Note:** This option is only used during the installation of panels monitored by compatible central stations.

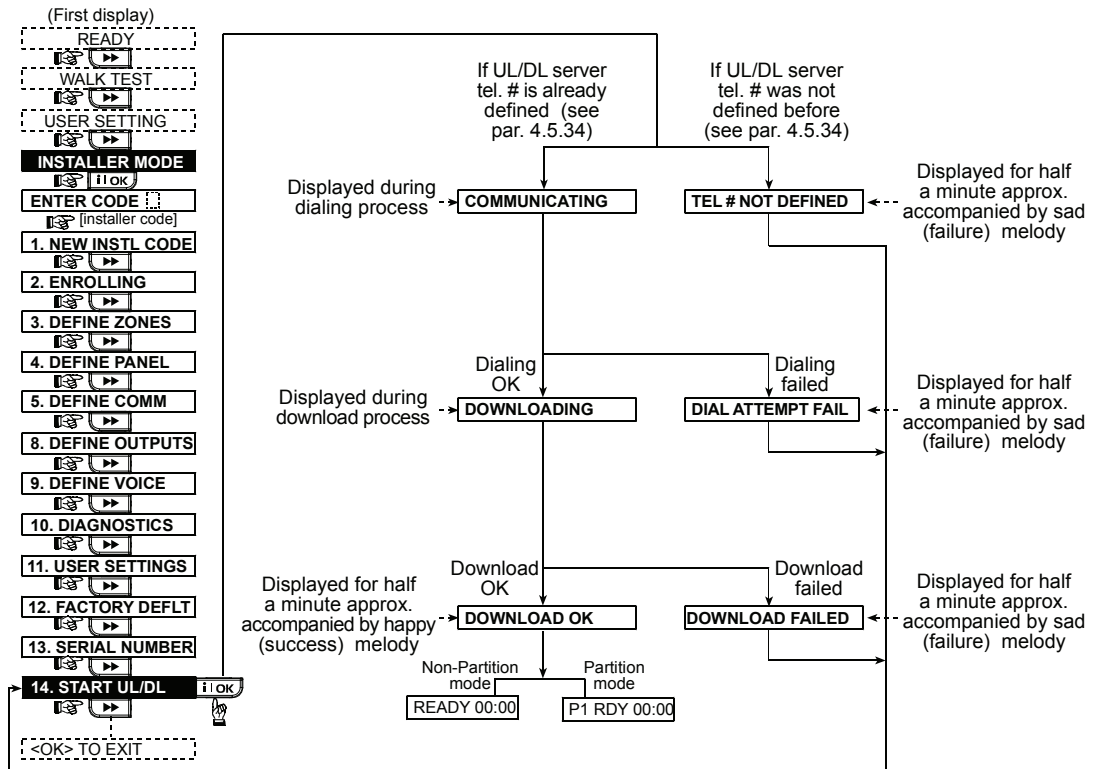
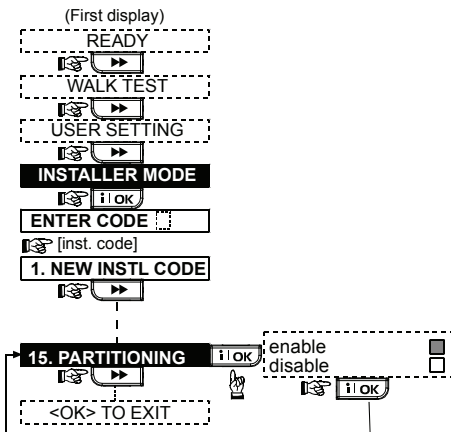


Figure 4.14 – Start UL/DL

## 4.15 ENABLING/DISABLING PARTITIONS

This mode allows you to enable/disable the partitioning feature (optional). Partitioning allows you to divide the system into a maximum of four independently controllable areas. A different user code is assigned to each partition in order to limit or control access to each area. A partition can also be armed or disarmed regardless of the status of the other partitions within the system.

When the partition feature is disabled, zones, user codes and features will operate the same as in a regular PowerMax Pro unit. When partition is enabled, menu displays are changed to incorporate the partition feature.



Note: Partitioning is an optional feature

Figure 4.15 – Partitioning

## 4.16 WALK-TEST

This mode (see Figure 4.1a) provides you with the means to conduct a periodic test, via the walk-test menu, at least once a week and after an alarm event.

## 5. TESTING PROCEDURES

**Note:** The system is intended to be checked by a qualified technician at least every 3 years.

### 5.1 Preparations

Make sure all windows and doors are closed and all zones are secured (undisturbed). If the partition (in a PowerMax Pro Partition system) is enabled the control panel displays the current status of the selected partition. For example, if the current partition is 3, the display should read:

P3 RDY HH : MM

**Note:** "P3" refers to PowerMax Pro with Partitioning (enabled).

If the display is "N.RDY" / "NOT READY", query the control panel by pressing the button repeatedly. The source(s) of the problem(s) will be displayed and read aloud. Take the necessary measures to eliminate the problem(s) before testing the system (see next paragraph).

### 5.2 Diagnostic Test

To verify proper function of all detectors in the system, a comprehensive diagnostic test is required. To perform this test, refer to Figure 4.10.

### 5.3 Keyfob Transmitter Test

Initiate transmission from each transmitter enrolled as a keyfob unit (according to the list in Table A2, Appendix A). Use each transmitter to arm the control panel AWAY and immediately disarm it. Upon pressing the keyfob unit's AWAY key, the ARM indicator should light. For example, If the current partition is 3, the display should respond as follows:

P3 ARMING AWAY

↓  
P3 PLS EXIT NOW

**Note:** "P3" refers to PowerMax Pro with Partitioning (enabled).

The exit delay beeps will begin.

Press the keyfob unit's DISARM () key. The ARM indicator should extinguish, the announcement "Disarm, ready to arm" should be heard and the display should revert to:

P3 RDY HH : MM

**Note:** "P3" refers to PowerMax Pro with Partitioning (enabled).

Test the AUX button in each keyfob in accordance with the information noted in Table A.2, Appendix A. Verify that the AUX button performs its duty as programmed.

- If the AUX (\*) button is defined as "STATUS", system status should be displayed and announced upon pressing the button.
- If the AUX (\*) button is defined as "INSTANT" at partition 3, press the AWAY button and then the AUX button. The response should be:

P3 ARM INSTANT

↺ (alternating) ↻

P3 PLS EXIT NOW

**Note:** "P3" refers to PowerMax Pro with Partitioning (enabled).

and the exit delay beeps will start. Press the DISARM () key immediately to disarm.

- If the AUX (\*) button is programmed as "PGM / X-10" and permitted to activate one or several X-10 units, pressing (\*) should activate the appliance controlled by the chosen X-10 unit(s).
- If the AUX (\*) button is programmed as "PGM / X-10" and permitted to activate the PGM output, pressing (\*) should activate the device wired to the PGM output.

### 5.4 Appliance ON/OFF Test

The "X-10 unit assignment" information that you noted in Appendix B of this manual is very useful for this test.

Go over the table in **Appendix B** column by column. If, for instance, the "BY ARM AWAY" column has "X"s marked in the rows pertaining to units 1, 5 and 15 - then arm AWAY the system and verify that the appliances controlled by these units are actually activated upon arming.

**IMPORTANT!** Before testing “BY TIMER” and “BY ZONE”, make sure that these forms of control are permitted - click

**9**  repeatedly and verify that the display shows:



*and:*



*A dark box at the extreme right means that these functions are enabled.*

The easiest way for test timed activation is to select the ninth item in the installer's menu ("**10. USER SETTINGS**") and set the system clock a few minutes before the relevant "start time". Do not forget to return the clock to the correct time after completion of this test.

## 6. MAINTENANCE

## 6.1 Dismounting the Control Panel

- A.** Release the 2 screws that fasten the front unit to the back unit (see Figure 3.1k).
- B.** Remove the 3 screws that fasten the back unit to the mounting surface (see Figure 3.1a) and remove the control panel.

## 6.2 Replacing the Backup Battery

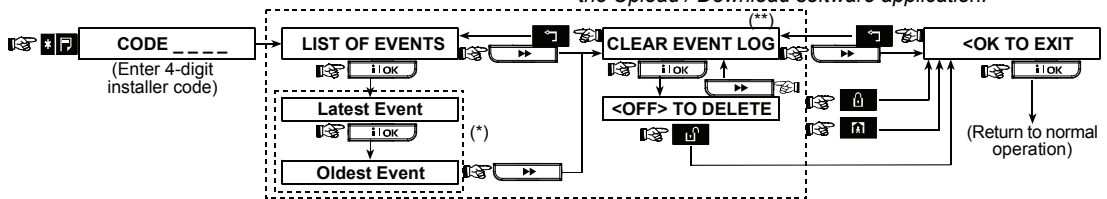
Replacement and first-time insertion of battery pack is similar (see Figure 3.1h).

Insert a fresh battery pack, and then tighten the battery compartment lid; the TROUBLE indicator should extinguish. However, the "MEMORY" message will now blink in the display (caused by the "tamper" alarm you triggered when opening the battery compartment lid). Clear it by arming the system and immediately disarming.


## 7. READING THE EVENT LOG

Up to 100 events can be stored in the event log. You can access this log and review the events, one by one. The log uses the first in, first out (FIFO) principle. If the event log fills up completely (100 events), the oldest event is deleted upon registration of each new event.

The date and time of occurrence are memorized for each event.



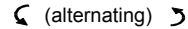
**Figure 7 - Reading / Erasing the Event Log**

\* Event is displayed in 2 parts, for example, "Z13 alarm" then "09/02/00 3:37 P". The two displays will be shown alternately until clicking  again to move to the next event or until the end of the event log (4 minutes).

\*\* Applicable only if installer code is entered. Not applicable in European countries.

## 5.5 Emergency Transmitter Test

Initiate transmission from each transmitter enrolled to an emergency zone (according to the list in Table A3, Appendix A). For example, upon pressing the transmit button of an emergency transmitter enrolled to zone 22 at partition 1, the display should read:



**Note:** "P1" refers to PowerMax Pro with Partitioning (enabled).

It is advisable to let the central station know that you are conducting this test, or just disconnect the telephone line from the PowerMax Pro during the test, to prevent false alarms.

## 6.3 Fuse



The PowerMax Pro has two internal fuses that have automatic reset. Therefore, there is no need to replace fuses.

When over current condition occurs, the fuse cuts off the circuit current. Upon fault current being removed for several seconds, the fuse is automatically reset and allows current flow through the circuit again.

## 6.4 Replacing/Relocating Detectors

Whenever maintenance work involves replacement or re-location of detectors, always perform a **full diagnostic test according to par. 4.10**.

**Remember!** A "poor" signal is not acceptable, as stated at the end of the test procedure.

When reading the event log, events are shown in chronological order - from the newest to the oldest. Access to the event log is provided by clicking the asterisk   key and not through the installer's menu. Reading and erasing process of the event log is shown in the next drawing.

**Note:** Up to 250 events can be stored in the event log via the Upload / Download software application.

## APPENDIX A. Detector Deployment & Transmitter Assignments

### A1. Detector Deployment Plan

Zone No.	Partition	Zone Type	Sensor Location or Transmitter Assignment (in non-alarm or emergency zones)	Chime (Yes / No)	Controls PGM (X = YES)	Controls X-10 Unit No.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29 (*)						
30 (*)						

**Zone Types:** 1 = Interior follower \* 2 = Perimeter \* 3 = Perimeter follower \* 4 = Delay 1 \* 5 = Delay 2 \* 6 = 24 h silent \* 7 = 24 h audible \* 8 = Fire \* 9 = Non-alarm \* 10 = Emergency \* 11 = Gas \* 12 = Flood \* 13 = Interior \* 14 = Temperature \* 15 = Home/Delay \* 16 = Zone Key.

**Zone Locations:** Note down the intended location for each detector. When programming, you may select one of 26 available zone names (plus 5 custom zone names that you can add - see Figure 4.3 - Define Zones).

\* Zones 29 & 30 only are hardwired zones.

### A2. Keyfob Transmitter List

Transmitter Data				AUX button Assignments		
No.	Partition	Type	Holder	Status or Arming "instant"	PGM Control	X-10 Unit Control
1				Indicate the desired function (if any) – see par. 4.4.17 (Aux button).	Indicate whether this output will be activated or not – see par. 4.8.	Mark the boxes of the X-10 units to be activated - see par. 4.8.
2						
3						
4						
5				System status <input type="checkbox"/> Arming "instant" <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>
6						6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/>
7						11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/>
8						



### A3. Emergency Transmitter List

Tx #	Transmitter Type	Enrolled to Zone	Name of holder
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

### A4. Non-Alarm Transmitter List

Tx #	Transmitter Type	Enrolled to Zone	Name of holder	Assignment
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

## APPENDIX B. X-10 Unit & PGM Output Assignments

Unit No.	Controlled Appliance	ON by arm HOME	ON by arm AWAY	ON by disarm	ON by Memory	ON by Delay	ON by Keyfob	ON by Timer		ON by Zone No.			ON by line fail
								ON Time	OFF Time	a	b	c	
1													-
2													-
3													-
4													-
5													-
6													-
7													-
8													-
9													-
10													-
11													-
12													-
13													-
14													-
15													-
PGM													

## APPENDIX C. Event Codes

### Contact ID Event Codes

Code	Definition	Code	Definition
101	Emergency	344	RF receiver jam detect
110	Fire	350	Communication trouble
120	Panic	351	Telco fault
121	Duress	373	Fire detector trouble
122	Silent	380	Prob trbl
123	Audible	381	Loss of supervision RF
131	Perimeter	383	Sensor tamper
132	Interior	384	RF low battery
134	Entry/Exit	393	Fire detector clean me
137	Tamper/CP	401	O/C by user
139	Burglary verified	403	Auto arm
151	Gas alarm	406	Cancel
152	Frzr alert	408	Quick arm
153	Frz alert	426	Door open event
154	Flood alarm	441	Armed home
158	Hot alert	454	Fail to close
159	Cold alert	455	Fail to arm
180	Gas trouble	456	Partial arm
301	AC loss	459	Recent close event
302	Low system battery	570	Bypass
311	Battery disconnect	602	Periodic test report
313	Engineer reset	607	Walk-test mode
321	Bell	641	Senior watch trouble

### SIA Event Codes

Code	Definition	Code	Definition
AR	AC Restore	GJ	Gas trouble restore
AT	AC Trouble	HA	Holdup Alarm (duress)
BA	Burglary Alarm	LR	Phone Line Restore
BB	Burglary Bypass	LT	Phone Line Trouble
BC	Burglary Cancel	OP	Opening Report
BR	Burglary Restore	OT	Fail to Arm
BT	Burglary Trouble / Jamming	PA	Panic Alarm
BV	Burglary Verified	QA	Emergency Alarm
BZ	Missing Supervision	RN	Engineer Reset
CF	Forced Closing	RP	Automatic Test
CI	Fail to Close	RX	Manual Test
CL	Closing Report	RY	Exit from Manual Test
CP	Auto Arm	TA	Tamper Alarm
CR	Recent Close	TR	Tamper Restore
EA	Door Open	WA	Flood alarm
FA	Fire Alarm	WR	Flood alarm restore
FT	Fire Detector Clean	XR	Sensor Battery Restore
FJ	Fire detector trouble	XT	Sensor Battery Trouble
FR	Fire Restore	YR	System Battery Restore
GA	Gas alarm	YT	System Battery Trouble / Disconnection
GR	Gas alarm restore	YX	Service Required
GT	Gas trouble		

## 4/2 Event Codes

**Note:** The report to central station is on the following zones: First wireless siren - zone 31, second wireless siren - zone 32, GSM - zone 33, first 2-way keypad (MKP-150/151) - zone 35, second 2-way keypad (MKP-150/151) - zone 36.

### Alarms

Zone #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1 <sup>st</sup> digit	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2 <sup>nd</sup> digit	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

### Restorals

Zone #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1 <sup>st</sup> digit	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
2 <sup>nd</sup> digit	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

### Supervisory trouble

Zone #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1 <sup>st</sup> digit	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7
2 <sup>nd</sup> digit	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	1	2	3	4	5	6	7	8	9	A	B	C	D

### Low Battery

Zone #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1 <sup>st</sup> digit	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9
2 <sup>nd</sup> digit	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	1	2	3	4	5	6	7	8	9	A	B	C	D

### Forced Arming – 8 users

User No.	1	2	3	4	5	6	7	8
1 <sup>st</sup> digit	A	A	A	A	A	A	A	A
2 <sup>nd</sup> digit	1	2	3	4	5	6	7	8

### Zone Bypass

Zone #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1 <sup>st</sup> digit	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
2 <sup>nd</sup> digit	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

## Panic / 24 Hours - 8 users

User No.	1	2	3	4	5	6	7	8	Panic CP	Duress
1 <sup>st</sup> digit	2	2	2	2	2	2	2	2	2	2
2 <sup>nd</sup> digit	1	2	3	4	5	6	7	8	9	A

## Arm HOME and AWAY (Closing)

User No.	1	2	3	4	5	6	7	8	Cancel alarm	Recent Close
1 <sup>st</sup> digit	E	E	E	E	E	E	E	E	E	E
2 <sup>nd</sup> digit	1	2	3	4	5	6	7	8	9	C

## Disarm (Opening)

User No.	1	2	3	4	5	6	7	8
1 <sup>st</sup> digit	F	F	F	F	F	F	F	F
2 <sup>nd</sup> digit	1	2	3	4	5	6	7	8

## Trouble

Event	Fuse Fail	Fuse Restore	Jamming	Jamming Restore	AC Failure	AC Restore	CPU Low Battery	CPU Low Battery Restore	CP Tamper
1 <sup>st</sup> digit	2	2	2	2	1	1	1	1	1
2 <sup>nd</sup> digit	C	D	E	F	1	2	3	4	6

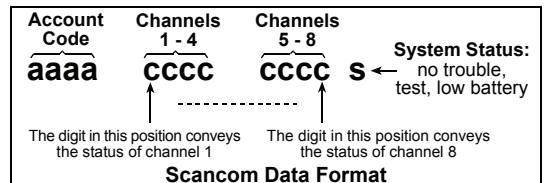
Event	CP Tamper Restore	No Active	COMM. & LINE Restore	Enter Test	Exit Test	Auto Test
1 <sup>st</sup> digit	1	1	1	1	1	1
2 <sup>nd</sup> digit	7	8	A	D	E	F

## Understanding the Scancom Reporting Protocol Data Format

The SCANCOM data format consists of 13 decimal digits divided into 4 groups, from left to right, as shown at the right side.

Each channel is associated with a specific event as follows:

- 1<sup>st</sup> "C": Fire
- 2<sup>nd</sup> "C": Personal attack
- 3<sup>rd</sup> "C": Intruder
- 4<sup>th</sup> "C": Open/close
- 5<sup>th</sup> "C": Alarm cancel
- 6<sup>th</sup> "C": Emergency
- 7<sup>th</sup> "C": Second alarm
- 8<sup>th</sup> "C": Trouble messages



## APPENDIX D. Programmable Zone Types

### D1. Delay Zones

A delay zone triggers the entry delay set by you in the course of programming the system. Warning beeps will sound throughout these delays, unless you choose to mute them.

- **Exit Delay** - The exit delay begins once the user arms the system. It allows him to leave via interior zones and a doorway before arming actually takes effect. When the exit delay starts, the buzzer beeps slowly and maintains a slow beeping rate until the last 10 seconds, during which it beeps rapidly.
- **Entry Delay** - The entry delay begins once the user enters the protected area via a specific doorway (his entry is sensed by a delay zone detector). To avoid an alarm, he must reach the keypad via follower zones and disarm the system before the delay expires. When the entry delay starts, the buzzer beeps slowly until the last 10 seconds, during which it beeps rapidly. The PowerMax Pro has two types of delay zones, for which different delay times may be set.

### D2. Emergency Zones

You can provide incapacitated, sick or elderly people with a miniature single-button transmitter to be carried on the neck like a pendant or to be worn on the wrist like a watch.

In distress situations, they can press the button on their transmitter, causing the PowerMax Pro to send an **emergency call** to the central monitoring station or to private telephones designated by the installer.

### D3. Fire Zones

A fire zone uses smoke detectors and is permanently active (a fire alarm is triggered regardless of whether the system is armed or disarmed). Upon detection of smoke, a **pulsating siren** sounds immediately and the event is reported via the telephone line.

### D4. Flood Zone

A flood zone is permanently active (a flood alarm is triggered regardless of whether the system is armed or disarmed). Upon detection of flood leak, the event is reported via the telephone line.

### D5. Gas Zone

A gas zone is permanently active (a gas alarm is triggered regardless of whether the system is armed or disarmed). Upon detection of gas leak, the event is reported via the telephone line.

## D6. Interior Zone

Interior zones are zones within the protected premises that have nothing to do with perimeter protection. Their most important feature is that they allow free movement within the protected area without initiating an alarm, provided that the system is armed in the "HOME" mode. People can therefore stay at home and move about freely, as long as they do not disturb a PERIMETER zone.

Once the system is armed in the AWAY mode (all zones are protected), interior zones will initiate an alarm if violated.

## D7. Interior Follower Zones

"Interior Follower" zone is a zone that is located between entry/exit zone and the alarm system control panel. This zone is temporarily ignored by the alarm system during entry/exit delay periods, to enable you to walk (without causing an alarm) in front of a motion detector that is associated with the Interior Follower zone, after you enter through an entry zone on the way to the control panel, or when leaving the protected premises after system arming.

## D8. Home/Delay Zones

A zone type which functions as a delay zone when the system is armed HOME and as a perimeter-follower zone when the system is armed AWAY.

## D9. Non-Alarm Zones

A non-alarm zone does not directly participate in the alarm system. Its main use is to perform auxiliary remote control tasks such as opening/closing a gate, activating/deactivating courtesy light and similar applications. No alarm, silent or otherwise, is associated with a non-alarm zone.

For remote control of electrical sensors, you can define the desired number of non-alarm zones and enroll a portable transmitter or a wireless sensor (detector) to this type of zone. Then, you must ensure that these zones are permitted to control the PGM output, or the X-10 units or both (see par. 4.8). Next, you can select the zones (3 at most) that will control each output. The outputs, in turn, will control the external electrical sensors.

**Note:** A sensor control can also be carried out by holders of all keyfob transmitters, by pressing the AUX [\*] button.

This method will work provided that you programmed the [\*] button for PGM/X-10 control (see Par. 4.4.17 and 4.4.18), and that you programmed the PGM output and the X-10 units to be controlled by keyfob transmitters (see par. 4.8).

## D10. Perimeter Zones

Perimeter zones rely on detectors designed to protect doors, windows and walls. An immediate alarm is initiated when such a zone is violated by opening the door/window or by trying to break the wall.

## D11. Perimeter Follower Zones

A non-entry/exit zone, typically a perimeter zone located on an entry/exit path treated as an entry/exit zone during an entry/exit time.

## D12. Temperature Zone

A temperature zone uses a wireless temperature detector to detect both indoor and outdoor temperatures and is permanently active. The detector monitors room temperature using an internal sensor. For outdoor or refrigerator installations, a waterproof temperature probe (optional) is used. There are a total of four fixed temperature points and the user can enable one or more temperature point.

Upon detection of change in temperature a digital message is transmitted and the event is reported.

## D13. 24-Hour Zones

24 hour zones are mainly used for PANIC buttons, perimeter detectors and anti-tamper protection. They therefore trigger an alarm in both armed and disarmed states.

- **24 Hour Zone - Silent.** - Upon detection, this zone initiates a silent alarm, meaning that the sirens do not function. Instead the PowerMax Pro dials telephone numbers and reports the event to central stations and/or to private telephones, as programmed.
- **24 Hour Zone - Audible.** - Upon detection, this zone initiates a siren alarm. The PowerMax Pro also dials telephone numbers and reports the event to central stations and/or to private telephones, as programmed.

## D14. Key Zones (Optional)

Key zones are zones that can be used for arming and disarming the system by MCT-100 and MCT-102 PowerCode transmitters that are enrolled to a zone. In addition, the alarm system may be armed / disarmed by a keyswitch when connected to wired zones 29 and 30.

Defining a zone as a KEY ZONE includes the following actions:

- a. The zone should be defined as non-alarm type zone (see par. 4.3).
- b. "Z-KEY ENABLE" should be selected for such a zone (see par. 4.3).
- c. According to the zone number, "z. 21-28 enable", "z. 29-30 enable", or "z. 21-30 enable" should be selected in the DEFINE PANEL menu (see par. 4.4.39).

## APPENDIX E. PowerMax Pro Compatible Devices

### E1 Compatible Detectors

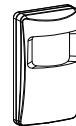
Each detector compatible with the PowerMax Pro system is packed with its own installation instructions. Read them carefully and install as indicated.

#### A. PIR Motion Detectors

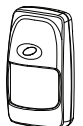
The wireless passive infrared (PIR) motion detectors used in the system are of the PowerCode type. The PowerMax Pro is capable of "learning" each detector's identification code and linking it to a specific zone (see par. 4.3 in this Guide). Some units are shown below:



**NEXT®**  
**K9-85 MCW**



**MCPIR-3000**  
**or K-940 MCW**



**DISCOVERY**  
**K9-80/MCW®**

**Note:** K-940 MCW, Discovery K9-80/MCW and NEXT® K9-85 MCW are pet immune units.

In addition to its unique 24-bit identification code, each detector transmits a message, containing status information:

- The detector is in alarm (or not).
- The detector is being tampered with (or not).
- The battery voltage is low (or normal).
- "This is a supervisory message".

If any of these detectors detects motion, it sends out a message to the alarm control panel. If the system is in the armed state, an alarm will be triggered.

**Wireless PowerCode Infrared Detector CLIP MCW.** A curtain-pattern PIR detector for indoor use and designed for easy installation. An advanced motion analysis method allows the CLIP MCW to distinguish between the true motion of the human body and any other disturbances that cause false alarms. After detection, the detector disarms itself to save battery power. It rearms (reverts to the ready state) if there is no subsequent detection throughout the following 2-minute period.

**Dual technology anti-masking NEXT PLUS Detectors.** The NEXT PIR is a microprocessor-controlled PIR detector, designed for easy installation, free of vertical adjustment. It features a cylindrical lens with uniform detection sensitivity of up to a distance of 15 meters (49 ft) from the detector.

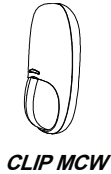
**Wireless PowerCode PIR Detector TOWER 40.** A microprocessor-controlled wireless digital PIR detector, designed for easy installation, free of vertical adjustment. It features parabolic and cylindrical mirrors with uniform detection sensitivity throughout its operating range, up to 18 meters (59 ft), with creep zone protection. An advanced True Motion Recognition™ algorithm (patented) allows the TOWER 40 to distinguish between the true motion of an intruder and any other disturbances which may cause false alarms.

**B. Magnetic Contact Transmitter MCT-302** is a PowerCode magnetic-contact transmitter used to detect the opening of a door or a window. The alarm contacts are closed as long as the door or window remains closed.

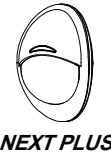
The unit has an extra alarm input that acts as if it were a separate wireless transmitter. It sends (or does not send) a "restored to normal" message to the alarm system, depending on the setting of an on-board "DIP" switch. The "restore" message informs you, through the control panel's display, whether the door or window is open or closed.

**C MCT-100 Wireless Adapter for Wired Detectors.** MCT-100 is a PowerCode device used mainly as a wireless adapter for 2 regular magnetic switches installed on 2 windows in the same room. It has two inputs, behaving as separate wireless transmitters with different PowerCode IDs. Each input sends (or does not send) a "restored" message to the alarm system, depending on the setting of an on-board "DIP" switch.

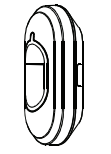
**D. Wireless Smoke Detector MCT-425.** A photoelectric smoke detector equipped with a PowerCode-type transmitter. If enrolled to a fire zone, it initiates a fire alarm upon detection of smoke.



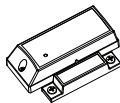
CLIP MCW



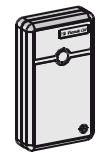
NEXT PLUS



TOWER 40



MCT-302

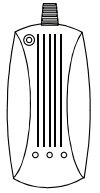


MCT-100



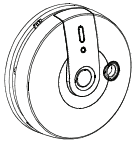
MCT-425

**E. Wireless PowerCode Gas Detector MCT-441.** A natural gas detector designed to send an alarm when Methane gas is detected. The detector can be used in a house, apartment, caravan, mobile home or yacht. The detector can send the following messages to the alarm control panel: Gas alarm, gas sensor failure, AC power failure and low battery voltage.



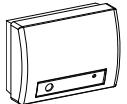
MCT-441

**F. Indoor Wireless CO Gas Detector MCT-442.** The carbon monoxide (CO) detector is designed to monitor the CO gas level in residential dwellings and give early warning before potentially dangerous levels exist. The CO alarm is transmitted to the alarm control panel and presented on its display.



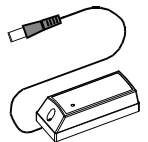
MCT-442

**G. Glass Break Detector MCT-501** An acoustic detector equipped with a PowerCode-type transmitter. Since it restores automatically after detection, this unit does not send a restore message to the control panel.



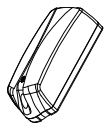
MCT-501

**H. Wireless PowerCode Flood Detector MCT-550.** The flood detector is used to detect the presence of water based fluids at any desired location. Upon flood detection, a digital message is transmitted, composed of the detectors' PowerCode ID followed by various status and other messages. Alarm and other data are thus forwarded to the alarm control panel.



MCT-550

**I. Wireless temperature detector MCT-560.** Fully supervised wireless PowerCode temperature detector. Can be enrolled to monitor change in temperature. The detector alerts the control panel upon detecting critical indoor or outdoor temperatures. The detector generates an alarm message when its sensor detects that the temperature has reached a certain temperature point. A restore message is generated when it crosses back the threshold temperature point.



MCT-560

## E2 Compatible Transmitters

The PowerMax Pro system is compatible with multi-button and single button key-ring and hand-held transmitters that use PowerCode and CodeSecure coding methods. Multi-button PowerCode transmitters transmit the same code each time the same button is pressed. They can be used for emergency signaling, for activating the PGM output or for controlling appliances via X-10 units. **They can not be used for arming / disarming.**

CodeSecure transmitters are of the rolling code type - they transmit a new code each time the same button is pressed. This provides a higher security level, especially in arming / disarming applications, because the code can not be copied ("grabbed") by unauthorized people.

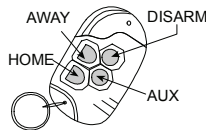
Following are the basic details of several compatible transmitters. The possible applications for each push-button are indicated in each drawing.



#### A. MCT-234

One-way 4-button PowerCode 'keyfob' transmitter. You can program the AUX (auxiliary) button to perform various tasks, in accordance with the user's needs.

Pressing AWAY and HOME together for 2 sec. initiates PANIC alarm. Pressing AWAY twice for 2 sec. initiates Latchkey arming.

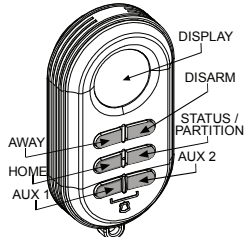


MCT-234

#### B. MCT-237

Two-way CodeSecure 6-button 'Keyfob' transmitter. You can program the AUX (auxiliary) buttons to perform various tasks, in accordance with the user's needs.

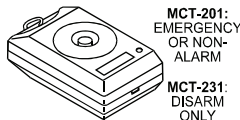
Pressing AWAY and HOME together for 2 sec. initiates PANIC alarm. Pressing AWAY twice within 2 sec. initiates Latchkey arming.



MCT-237

#### C. MCT-231 / 201\*

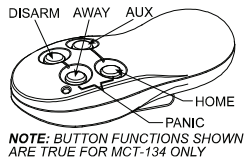
(N.A. in North America) Single-button pendant units. The MCT-231 (Code-Secure) and the MCT-201 (PowerCode) can be enrolled to perform functions as shown. Both units look alike.



MCT-231 / 201

#### D. MCT-134 / 104\*

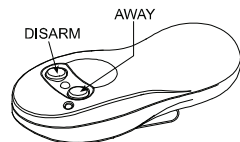
(N.A. in North America) 4-button hand-held units. MCT-134 (CodeSecure) can replace the MCT-234 keyfob. MCT-104 (PowerCode) can perform emergency and non-alarm functions. Both units look alike.



MCT-134 / 104

#### E. MCT-132 / 102\*

(N.A. in North America) 2-button units. MCT-132 (CodeSecure) can perform functions as shown. MCT-102 (PowerCode) can perform emergency and non-alarm tasks. Both units look alike.



MCT-132 / 102

#### F. MCT-131 / 101\*

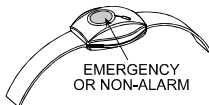
(N.A. in North America) Single-button units. The MCT-131 (CodeSecure) and the MCT-101 (PowerCode) can be enrolled to perform functions as shown. Both units look alike.



MCT-131 / 101

#### G. MCT-211\*

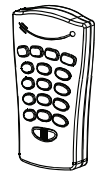
Water-proof, wrist-worn Power-Code transmitter. Can be enrolled to perform emergency or non-alarm functions.



MCT-211

#### H. MCM 140+

The MCM-140+ is a wireless remote control unit that enables the user to arm/disarm the alarm system, to initiate emergency/fire/panic alarms, to perform one of the AUX functions, to turn lighting devices on and off, and for PGM control. The keypad includes an RF transmitter that sends out a differently coded RF signal for each command.



MCM-140+

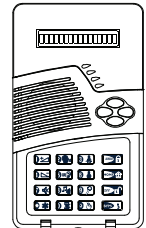
#### I. MKP-150/151

The MKP-150 / MKP-151 operates using two-way encrypted coded transmission and provides aural and visual indications. For each control panel, a maximum of two MKP-150 / MKP-151 keypad devices may be enrolled.

The device enables the user to arm/disarm the alarm system, to initiate emergency / fire / panic alarms and to turn lighting devices on and off.

**Note:** MKP-150/151 is not compatible for use when partition is enabled.

\* Not UL listed.



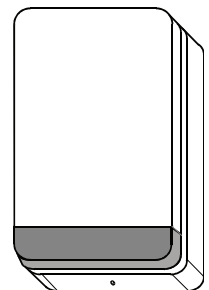
MKP-150/151

#### E3 Compatible WL Siren

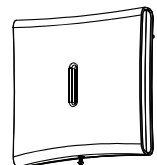
The MCS-710/MCS-720 (\*) wireless siren can be integrated with the PowerMax Pro in areas in which wiring action is difficult or impossible. The MCS-710/MCS-720 is a fully supervised, 2-way communication device (it includes a receiver, to receive activation commands from the alarm system, and a transmitter to periodically transmit its status signal to the alarm system).

When an identifiable activation command is received from the PowerMax Pro, the siren activates its sounder and the flash light (strobe light every 1.5 seconds).

\* Not UL listed.



MCS-710

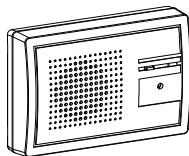


MCS-720

## E4. Compatible Speech Box

The Speech Box (\*) is a wired remote speaker and microphone device designed for indoor use. When used with the PowerMax Pro control panel, the Speech Box provides remote audio capability to enable two-way voice communication between the user and the central station or private telephone. Visual operation is indicated by a single steady LED.

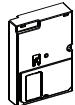
\* Not UL listed.



Speech Box

## E5. Compatible GSM Modem

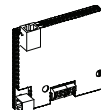
The internal GSM modem enables the PowerMax Pro system to operate over a cellular network. For details regarding the GSM modem features and connections, refer to the GSM Modem installation instructions.



Internal  
GSM

## E6. PowerLink

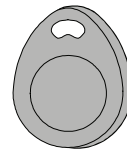
The internal PowerLink enables you to view and control the PowerMax Pro system over the Internet. For details regarding the PowerLink features and connections, refer to the PowerLink user guide.



Plink Pro

## E7. Prox Tag

The proximity tag enables you to perform a variety of functions without entering user code, for example, arming, disarming, reading the event log, etc. Whenever the user code is required, you can simply present a valid proximity tag and perform the desired operation without the need to key-in your user code.



PROX TAG

If the equipment is causing harm to the telephone network, the telephone company may request to disconnect the equipment until the problem is resolved.

**Note:** For additional products refer to [www.visonic.com](http://www.visonic.com).

### WARRANTY

Visonic Limited (the "Manufacturer") warrants this product only (the "Product") to the original purchaser only (the "Purchaser") against defective workmanship and materials under normal use of the Product for a period of twelve (12) months from the date of shipment by the Manufacturer.

This Warranty is absolutely conditional upon the Product having been properly installed, maintained and operated under conditions of normal use in accordance with the Manufacturers recommended installation and operation instructions. Products which have become defective for any other reason, according to the Manufacturers discretion, such as improper installation, failure to follow recommended installation and operational instructions, neglect, willful damage, misuse or vandalism, accidental damage, alteration or tampering, or repair by anyone other than the manufacturer, are not covered by this Warranty.

The Manufacturer does not represent that this Product may not be compromised and/or circumvented or that the Product will prevent any death and/or personal injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection. The Product, properly installed and maintained, only reduces the risk of such events without warning and it is not a guarantee or insurance that such events will not occur.

**THIS WARRANTY IS EXCLUSIVE AND EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, OBLIGATIONS OR LIABILITIES, WHETHER WRITTEN, ORAL, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, IN NO CASE SHALL THE MANUFACTURER BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS WARRANTY OR ANY OTHER WARRANTIES WHATSOEVER, AS AFORESAID.**

**THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES OR FOR LOSS, DAMAGE, OR EXPENSE, INCLUDING LOSS OF USE, PROFITS, REVENUE, OR GOODWILL, DIRECTLY OR INDIRECTLY ARISING FROM PURCHASER'S USE OR INABILITY TO USE THE PRODUCT, OR FOR LOSS OR DESTRUCTION OF OTHER PROPERTY OR FROM ANY OTHER CAUSE, EVEN IF MANUFACTURER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.**

**THE MANUFACTURER SHALL HAVE NO LIABILITY FOR ANY DEATH, PERSONAL AND/OR BODILY INJURY AND/OR DAMAGE TO PROPERTY OR OTHER LOSS WHETHER DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, BASED ON A CLAIM THAT THE PRODUCT FAILED TO FUNCTION.**

However, if the Manufacturer is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty, **THE MANUFACTURER'S MAXIMUM LIABILITY (IF ANY) SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE OF THE PRODUCT**, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer.

When accepting the delivery of the Product, the Purchaser agrees to the said conditions of sale and warranty and he recognizes having been informed of. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so these limitations may not apply under certain circumstances.

The Manufacturer shall be under no liability whatsoever arising out of the corruption and/or malfunctioning of any telecommunication or electronic equipment or any programs.

The Manufacturers obligations under this Warranty are limited solely to repair and/or replace at the Manufacturer's discretion any Product or part thereof that may prove defective. Any repair and/or replacement shall not extend the original Warranty period. The Manufacturer shall not be responsible for dismantling and/or reinstallation costs. To exercise this Warranty the Product must be returned to the Manufacturer freight pre-paid and insured. All freight and insurance costs are the responsibility of the Purchaser and are not included in this Warranty.

This warranty shall not be modified, varied or extended, and the Manufacturer does not authorize any person to act on its behalf in the modification, variation or extension of this warranty. This warranty shall apply to the Product only. All products, accessories or attachments of others used in conjunction with the Product, including batteries, shall be covered solely by their own warranty, if any. The Manufacturer shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consequentially or otherwise, caused by the malfunction of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Products. This Warranty is exclusive to the original Purchaser and is not assignable.

This Warranty is in addition to and does not affect your legal rights. Any provision in this warranty which is contrary to the Law in the state or country where the Product is supplied shall not apply.

**Warning:** The user must follow the Manufacturer's installation and operational instructions including testing the Product and its whole system at least once a week and to take all necessary precautions for his/her safety and the protection of his/her property.

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**Visonic®**

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